

MICROCOPY RESOLUTION TEST CHART NATIONAL BUREAU OF STANDARDS - 1963 - A

.

(12)

METEOROLOGICAL DATA REPORT

19320C MIRS
Missile Numbers V61-004,
V61-013, V61-025
Round Number 458/AT2-28,
459/AT2-29, 460/AT2-30

by

DONALD C. KELLER
Program Support Coordinator
Phone Number (505) 679-9568
AVN Number 349-9568



ATMOSPHERIC SCIENCES LABORATORY WHITE SANDS MISSILE RANGE, NEW MEXICO

Copy available to DTIC does not permit fully legible reproduction

S FILE COPY

AD A 13 1980

ECOM.

UNITED STATES ARMY ELECTRONICS COMMAND

83 08 30 051

DISCLAIMER NOTICE

THIS DOCUMENT IS BEST QUALITY PRACTICABLE. THE COPY FURNISHED TO DTIC CONTAINED A SIGNIFICANT NUMBER OF PAGES WHICH DO NOT REPRODUCE LEGIBLY.

SECURITY CLASSI. ICATION OF THIS PAGE (When Data Entered)

REPORT DOCUMENTATION PAGE READ INSTRUCTIONS BEFORE COMPLETING FORM							
1. REPORT NUMBER	2. GOVT ACCESSION NO.	3. RECIPIENT'S CATALOG NUMBER					
DR 1305							
4. TITLE (and Subtitle)		5. TYPE OF REPORT & PERIOD COVERED					
19320C MLRS	··						
Missile Number V61-004, V61-013, V Round Number 458/AT2-28, 459/AT2-2	/61-025 29, 460/AT2-30	6. PERFORMING ORG. REPORT NUMBER					
7. AUTHOR(a)		B. CONTRACT OR GRANT NUMBER(a)					
White Sands Meteorological Team		DA Task 1F665702D127-02					
9. PERFORMING ORGANIZATION NAME AND ADDRESS		10. PROGRAM ELEMENT, PROJECT, TASK AREA & WORK UNIT NUMBERS					
11. CONTROLLING OFFICE NAME AND ADDRESS		12. REPORT DATE					
US Army Electronics Research & Dev	elopment Cmd	July 1983					
Atmospheric Sciences Laboratory		13. NUMBER OF PAGES					
White Sands Missile Range, New Mex 14. MONITORING AGENCY NAME & ADDRESS(If differen	t from Controlling Office)	15. SECURITY CLASS. (of this report)					
US Army Electronics Research and I	Development Cmd						
Adelphi, MD 20783		UNCLASSIFIED 15a. DECLASSIFICATION/DOWNGRADING					
		SCHEDULE					
16. DISTRIBUTION STATEMENT (of this Report)							
		İ					
	_						
17. DISTRIBUTION STATEMENT (of the abetract entered	in Block 20, if different fro	m Report)					
Approved for public release; distr	dhuttan umliwita	a					
Approved for public release, distr	Toucton unitmice	·a					
18. SUPPLEMENTARY NOTES							
19. KEY WORDS (Continue on reverse side if necessary an	id identify by block number)						
20. ARSTRACT (Continue on reverse side if necessary on	d identify by block number)						
		}					
Meteorological data gathered for t	he launching of	the 19320C MLRS, Missile					
Number V61-004, V61-013, V61-025, 460/AT2-30 are presented in tabula	Round Number 458	/AT2-28, 459/AT2-29,					
+00/wrs=20 are bresented in raputa	T TOIM.						

DISPOSITION INSTRUCTIONS

UDVERSE OF

Destroy this report when it is no longer needed. Do not return to the originator.

DISCLAIMER

The findings in this report are not to be construed as an official Department of the Army position, unless so designated by other authorized documents.

The citation of trade names and names of manufacturers in this report is not to be construed as official Government indorsement or approval of commercial products or services referenced herein.

January of January of State of	
By	(intree)

REPORT DOCUMENTATION	READ INSTRUCTIONS BEFORE COMPLETING FORM	
1. REPORT NUMBER	2. GOVT ACCESSION NO.	3. RECIPIENT'S CATALOG NUMBER
DR 1305		
4. TITLE (and Subtitie)		5. TYPE OF REPORT & PERIOD COVERED
19320C MIRS Missile Number V61-004, V61-013, V	K1 005	
Round Number 458/AT2-28, 459/AT2-2	01-025 29. 460/AT2-30	6. PERFORMING ORG, REPORT NUMBER
7. AUTHOR(a)		8. CONTRACT OR GRANT NUMBER(*)
		S. CONTRACT ON GRANT NOMBER(4)
White Sands Meteorological Team		DA Task 1F665702D127-02
9. PERFORMING ORGANIZATION NAME AND ADDRESS		10. PROGRAM ELEMENT, PROJECT, TASK AREA & WORK UNIT NUMBERS
11. CONTROLLING OFFICE NAME AND ADDRESS	· · · · · · · · · · · · · · · · · · ·	12. REPORT DATE
US Army Electronics Research & Dev	elopment Cmd	July 1983
Atmospheric Sciences Laboratory	dan 88000	13. NUMBER OF PAGES
White Sanda Missile Range New Mex 14. MONITORING AGENCY NAME & ADDRESS(II different		15. SECURITY CLASS. (of this report)
US Army Electronics Research and D Adelphi, MD 20783	evelopment Cmd	
Aderbur, MD 50193		UNCLASSIFIED 15a. DECLASSIFICATION/DOWNGRADING SCHEDULE
		SCHEDULE
16. DISTRIBUTION STATEMENT (of this Report)		
17. DISTRIBUTION STATEMENT (of the abatract entered	In Black 20. If different from	m Report)
Approved for public release; distr	ibution unlimite	d.
18. SUPPLEMENTARY NOTES		
19. KEY WORDS (Continue on reverse side if necessary and	d identify by block number)	
20. ABSTRACT (Continue on reverse side II recoverary and	lidentify by block number)	
	, -, ,	
Meteorological data gathered for the	he launching of	the 19320C MIRS, Missile
Number V61-004, V61-013, V61-025, 1460/AT2-30 are presented in tabular	Round Number 458,	/AT2-28, 459/AT2-29,
	TOTH.	
		}

CONTENTS

		PAGE
INTRODUC	TION	1
DISCUSS!	ON	1
ŒNERAL	AREA MAP	2
LAUNCH A	REA DIAGRAM	3
TABLES:		
1.	Surface Observations taken at 1000 MDT at LC-33	4
2.	Anemometer-Measured Wind Speed and Direction, LC-33 Fixed Pole, taken at 1000 MDT	5
3•	Anemometer-Measured Wind Speed and Direction, Tower Levels 1, 2, 3, and 4, taken at 1000 MDT	5
4.	Launch and Impact Pilot-Balloon Measured Wind Data	6
5•	Aiming and T-Time Computer Met Messages	7
6.	LC-37 Significant Level Data at 0800 MDT	8
7.	LC-37 Upper Air Data at 0800 MDT	9
8.	LC-37 Mandatory Levels at 0800 MDT	10
9.	WSD Significant Level Data at 0823 MDT	11
10.	WSD Upper Air Data at 0823 MDT	12
11.	WSD Mandatory Levels at 0823 MDT	39
12.	IC-37 Significant Level Data at 1000 MDT	40
13.	LC-37 Upper Air Data at 1000 MDT)+1
14.	IC-37 Mandatory levels at 1000 MDT	1.0

INTRODUCTION

19320C MIRS, Missile Numbers V61-004, V61-013 and V61-025, Round Numbers 458/AT2-28 459/AT2-29 and 460/AT2-30, were launched from LC-33, White Sands Missile Range (WSMR), New Mexico, at 1000:01, 1000:06 and 1000:11 MDT, 5 July 1983. The scheduled launch times were 1000, 1000:04.5 and 1000:09 MDT.

DISCUSSION

Meteorological data were recorded and reduced by the White Sands Meteorological Team, Atmospheric Sciences Laboratory (ASL), White Sands Missile Range, New Mexico. The data were obtained by the following methods:

1. Observations

a. Surface

- (1) Standard surface observations to include pressure, temperature (°C), relative humidity, dew point (°C), density (gm/m³), wind direction and speed, and cloud cover were made at the LC-33 Met Site at T-0 minutes.
- (2) Anemometer data were provided from existing pole-mounted and tower-mounted anemometers at LC-33. Monitor of wind speed and direction from one anemometer was also provided in the launch control room.

b. Upper Air

(1) Low level wind data were obtained from Pilot-balloon observations at:

SITE AND ALTITUDE

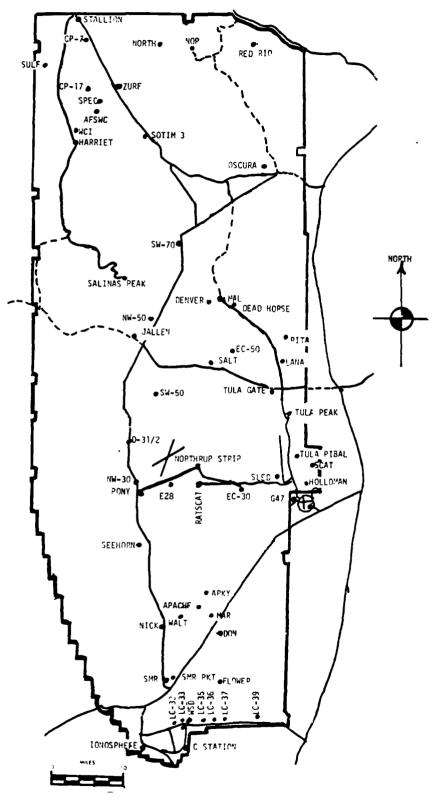
LC-33 2km DON 2km

(2) Air structure data (rawinsonde) were collected at the following Met Sites.

SITE AND TIME

LC-37 0800 MDT WSD 0823 MDT WSD 1000 MDT

WSMR METEOROLOGICAL SITES



		LC-35 Launch Area	WEST
	— Y186,5QO	INE OF FICE	l inch = 250 ft -
MET Tower	7186,000 O 7-9 Radar	0	a i
	185,50°	200 Ktg	
	Y185,000	74.95 EDA	1-00 A

1911 ExadS10 3003548 103553

TABLE 1	.1						STATIFFE IC-33	C-33		
DATE OS	1983	1983					184,982.	64 Y= 1	7= 484,982.64 Y= 185,957.73 H= 3995.00	3995.00
1100 E	PRESSURE nd s	100 No. 340	20 40 1810 / 137		921.471VE acstorr7	£1/a5 11/433		WIND SPEED Kts	DIFECTION SPEED CHAPACTEP degs In kts kts	VISIBIL- ITY
1000	885.3	ħ*62		12.1	35		360	88		25
·						_				

			H ATONS		
-		15		-	
	1 6 (F P	ALIT TYPE HGT			
	3rc	A::T		+	 -
	,		cI 25,000		
SUITE	LAYEP	AMT TYPE NOT	CI		
J	bu3	AM	5		
			o cu 6,500		
	t Life	TYPE	CC		
	IST LATER	ART	0		
	DESTRUCTIONS				

PSYCHPOTETRIC COTPUTATION

: 3;;11	1000	
DRY BULB TEMP.	4.62	
WET BULB TEMP.	17.9	
WET BULB DEPR.	11.5	
DEW POINT	12.1	
RELATIVE HUMID.	35	

	JUL _	83	1000	<u> </u>			
Υ	MONTH		TIME				
22			1 20				
					1		
. 73		1					
AGL		53.0 ft	. AGL		83.6 ft	. AGL	
DIR	SPEED	T-TIME	DIR	SPEED	T-TIME	DIR	SPEED
DEG	KNOTS	SEC	DEG	KNOTS	SEC	DEG	KNOTS
002	15	T -30	002	11	T -30	015	18
002	15	T -20	010	10	T -20	015	17
002	14	T -10	002	10	T -10	012	17
002	13	T 0.0	001	10	T 0.0	015	16
002	16	<u>r</u> +10	005	12	T +10	01	17
	.29 .90 AGL DIR DEG 002 002 002	MONTH .29 .90 AGL DIR SPEED DEG KNOTS 002 15 002 15 002 15 002 14 002 13	Y MONTH YEAR .29	Y MONTH YEAR TIME .29 .29 .485,874.29 .30 Y186.012.00 H4033.57 53.0 ft. AGL DIR SPEED T-TIME DIR DEG KNOTS SEC DEG OO2 15 T-30 OO2 OO2 15 T-20 O10 OO2 14 T-10 OO2 OO2 13 T 0.0 OO1	Y MONTH YEAR TIME POLE #2 X485,874.29 Y186.012.00 H4033.57 53.0 ft. AGL DIR SPEED T-TIME DIR SPEED DEG KNOTS SEC DEG KNOTS OO2 15 T-30 OO2 11 OO2 14 T-10 OO2 10 OO2 13 T 0.0 OO1 10	Y MONTH YEAR TIME .29 .29 .485,874.29 X485,87 .90 .9186.012.00 .9186,11 H4033.57 H4063.9 AGL 53.0 ft. AGL 83.6 ft DIR SPEED T-TIME DIR SPEED T-TIME DEG KNOTS SEC DEG KNOTS SEC OO2 15 T-30 OO2 11 T-30 OO2 15 T-20 O10 10 T-20 OO2 14 T-10 OO2 10 T-10 OO2 13 T 0.0 OO1 10 T 0.0	Y MONTH YEAR TIME .29 X485,874.29 X485,877.29 .30 Y186.012.00 Y186,116.06 H4033.57 H4063.92 AGL 53.0 ft. AGL 83.6 ft. AGL DIR SPEED T-TIME DIR SPEED T-TIME DIR DEG KNOTS SEC DEG KNOTS SEC DEG OO2 15 T-30 OO2 11 T-30 O15 OO2 15 T-20 O10 10 T-20 O15 OO2 14 T-10 OO2 10 T-10 O12 OO2 13 T 0.0 OO1 10 T 0.0 O15

					•
TABLE	3	_LC-33 METEOROLOGICAL	TOWER ANEMOMETER MEASURED WINDS	•	FT TOWER)
					•

LEVEL =1, 10 X484,982.64	? FEET , Y185,057.7	3, H3983.90 (base)	LEVEL #2, 62 FEET X484,982.64, Y185.057.73, H3983.00 (base)			
T-TIME SEC	DIR DEG	SPEED KNOTS	T-TIME SEC	DIR DEG	SPEED KNOTS	
r -30	360	OH.	T 30	002	13	
T -20	022	04	T -20	01.2	10	
T - 10	024	05	1 -10	022	14	
T).0	001	07	T 0.0	005	16	
T +10	021	07	1 +10	360	12	

LEVEL #3, 10 X484,982.64	02 FEET , Y185,057.7	3, H3983.00 (base)		LEVEL #4, 202 FEET X484,982.64, Y185,057.73, H3983.00 (base)			
T-TIME SEC	DIR DEG	SPEED KNOTS	T-TIME SEC	DIR DEG	SPEED KNOTS		
T -30	01.4	14	T- 30	004	12		
T -20	017	14	T- 20	006	12		
T -10	009	15	T-10	002	14		
r 0.0	008	15	т ^{0.0}	357	13		
T +10	003	15	T +10	357	12		

^{**} Pole #1 Dirs. Estimated

T-TIME PILOT-BALLOON MEASURED WIND DATA

DATE 5 JUL 83

SITE: LC-33

TIME: 1000 MDT

WSTM COORDINATES:

X= 484,837.34

Y= 184,124.44

H= 3,975.57

SITE: DON

TIME 1000 MDT

WSTM COORDINATES:

X = 511,988.37

Y= 247,396.36

H= **3,996.8**3

LAYER MIDPOINT DIRECTION SPEED

CATER TIED OT	T DINECTION	31 660	
METERS AGL	DEGREES	KNOTS	
SURFACE	010	10	
150	008	13	
210	007	14	
270 [*]	007	15	
330	004	15	
390	353	10	
500	34C	11	
650	343	11	
300	3 5 4	08	
950	022	06	
1150	053	09	
1350	073	14	
1550	073	16	
1 750	066	18	
2000	078	18	

Data obtained from a Double Theodolite Tracked pilot-balloon observation. METERS AGL DEGREES KNOTS SURFACE CALM 007 12 150 003 15 210 356 15 270 16 350 330 346 16 390 16 340 500

LAYER MIDPOINT DIRECTION SPEED

 650
 356
 14

 800
 002
 14

 950
 005
 11

 1150
 062
 07

 1350
 098
 09

 1550
 146
 13

 1550
 146
 13

 1750
 102
 08

 2000
 071
 05

Data obtained from a Single

observation.

Theodolite Tracked pilot-balloon

AIMING AND T-TIME COMPUTER MET MESSAGES

5 July 1983

IC-37 0800 MDT METCM1324063 051400124383 00000000 29900883 01631008 29870873 02583011 29760849 03546003 29500810 04136014 29330765 05119012 29030721 06140016 28680680 07113017 28270640 08069017 27820603 09035020 27330567	WSD 0823 MDT METCM1324064 051440122883 00000000 30110883 01602003 30060873 02575005 29780849 03620005 29460811 04142013 29330765 05120013 29050721 06140015 28680680 07127016 28250641 08093016 27840603 09020015 27420567	IC-37 1000 MDT METCMI324063 051600124884 00622012 30280884 01630022 30160874 02609016 29880849 03113003 29590811 04151013 29240766 05134015 28990722 06144015 28620681 07125021 28170641 08093021 27760603 09071020 27300567
--	--	--

GEUDETIC CUORDINATES 32.40175 LAT DEG 106.31232 LON DEG																	
«	REL.HUM. Percevi		5 4 • 3	61.3	53.0	60.0	36.0	32.0	23.3	28.0	39.0	73.0	31.0	53.0	0.4.9	22.0	
SIGNIFICANT LEVEL DATA 18.0180394 LC-37 TABLE 6	TEMPFRATURE IR DEWPOINT	DEGREES CENTIGRADE					3.6										
SIGNI	TEMI	DEGRE	23.5	23.1	22.4	19.8	19.3	20.1	15.3	10.5	5.1	1.3	-1.5	-2.6	-2.5	-5.9	
15	PRESSURF GEOMETRIC ALTITJDE		4351.4	4653.3	5151.4	6529.3	74*0.5	7792.2	13633.2	12555.3	14473.1	15796.4	16501.5	17222.0	18044.5	19614.5	
STATION ALTITUDE 4051.37 FFET VSL 5 JULY 83 0800 MDL ASCENSION NO. 94	PRESSURE	MILLIBARS	R43.2	864.9			754.5							5.48.2	531.2	•	

								1		
FNSION	83 O	0000 N 2 1			16-37			136.		
					TABLE 7					
RIC	FRESSURE	7 F.M	ATURF	•		Φ.	WIND DA	ATA	INDEX	
D.E.		b¶ v	DEMPOINT	ER	6M / C UB 1 C	z	1 RE	SPEED	J 0	
MSL FEET	MILLIBARS	œ	CE MTIGRADE		MFIER	KNOTS	DEGREES(TV)	KNOTS	REFRACTION	
1.4		23.6	\$	6	62	673	c.	٠.	.3	
0.0	Ġ.	53.5	Š	ċ	1,4	673			.30	
3.3	•	22.6	S	'n	(X)	672			5	
0.0	3	71.7	14.6	2	7 3	671			0	
0.0	٠,	3.00	~	-	7.1	670			00	
0.0	٥	•	_	ؿ	5	699			2	
0.0	•	19.4	5.4	۲,	7	668	٥.		2	
7500.0		_	3.5	Š	28	667	63.2	•	20	
0.0		19.7	2.5	- :	Ξ	667	,	•	00.	
0.0	Š	16.8	7.	ċ	8	949	÷	2	8	
0.0	_	17.9	_	÷	25	565	ċ	٠,	1.000222	
0.0	8	17.0	-3.3	,	۷2	654	ċ	~	1.000210	
J.0		16.1	\sim	2.	5	663	ċ	•	90.	
0°0		15.4	-7.2	ؽ	47	662	,,	٠	1.000215	
0.0	ċ	14.1	~	:	3.5	660	8	\$	0	
0.0	~	13.0	-7.3	Μ,	77	629		•	2	
0.0	•	11.8	-7.2	\$	7	658	ç		9	
0.0	654.1	10.6	-7.2	27.8	801.3	6.959	69.3	•	1.030195	
0.0	÷	7.6	~	•	9	655	ň	•	1.000193	
0.0	ċ	7.8	-7.5	~	62	553	å	٠.	1,000191	
0.0	•	4.0	-7.4	÷	ŝ	652	~	٠.	1.000188	
0.0	~	o•s	-7.5	ċ	59	650	m		1.000186	
0.0		3.6	7.5-	2.	48	648	è	•	1.000137	
0.0	585.2	2.1	~	۶.	33	279	8	•		
0.3	•	٠.	\sim	š	2,2	645	M	ċ	1.000187	
0.0		-1.5	-4.3	-	2	643	ċ	ċ		
0.0	2	-2.3	۲.	\$	60	641	æ	0	1.000176	
	~	-2.0	÷	š	45	641.	۶.		8	
0.0008	å	-2.5	-11.6	ċ	3	641.	۲.	•	1.000165	
0	522.0	-3.5	•	÷	73	640			1.000160	
0.000	•		-18.5	2	~	638			1,000155	
0	~	-5.7	۳.	,	5	637.			1.000151	

XX WIND DATA INVALIR DUE TO MISSING RAW AZIMUTH AND ELEVATION ANGLES.

	GEODETIC COORDINATES	32.40175 LAT DEG	106.31232 LON DEG
MANDATORY LEVELS	186/180094	16-37	TABLE 8
	STATION ALTITUDE 4051.77 FEET VSL		ASCERSION NO. 94

PRESSURE GE	PRESSURE GEOPGTENTIAL		FRATURE	REL.HUM.	ONIA	DATA
MILLIPARS	FEE T	AIR Degrees	AIR DEWPOINT Degrees centigrade	PERCENT	DIRECTIO DEGREES(T	DIRECTION SPEED DEGREES(IV) KNOTS
150.0	5148.	22.4	15.0	53.	0.6666	XX0.6666
F03 •3	6872.	19.5	C•6	51.	0.0666	3333.0xx
750.0	4693.	18.5		28.	71.2	12.4
0.00′	16623.	15.0	-7.7	20.	75.4	16.5
950.0	1,559.	10.2	-7.2	29.	67.8	16.6
403.0	14819.	4.1	-5.0	48.	38.9	18.3
<53°3	17116.	-2.5	8°3-	62.	19.5	20.02
0.002	1958A.	0,5-	1.77-	22.		

XX WIND DATA INVALID DUE TO MISSING RAW AZIMUTH AND ELEVATION ANGLES.

GFODETIC CUORDINATES 32.43343 LAT DEG 1u6.37733 LON DEG						
∀ 1.	REL.HUM. Percent	53.0	53.0	51.0	0.57	•
SIGNIFICANT LEVEL DATA 1860020337 WHITE SANDS TABLE 9	TEMPERATURE AIR DELPOINT DEGREES LENTISKADE	15.5	0 0 0 0	11.5	5.7	
SIGNIFIC 18 WHI	TEMPE AIR DEGREFS	25.9	22.7	19.2	18.8	
ب	PRESSJAF GEDMETRIC ALTITUDE VILLIDAR [©] MSL FEET	3989.0	5007.2	6483.8	7246.3	
STATION ALTITUDE SOSO, NO FELT MSL 5 JULY 83 OB23 FIDE ASCENSION NO. 337	PRESSJRT GEDMETRI ALTITUDE MILLIDARS MSL FEET		0.00xx			

•	,	•	,	~	۶.	3	~	.,	,	,	27.0	;	;	:	'n	6	္ခံ		:	2																٠
•	٠, ن	÷	•		•	•		0	16.	٠ ٢	-71.3	5.	22.	7.	-	. 5.	4 2	4.1.	. 1. 7	2.5																
	•		`.	~	w)		÷	~	. 7	,	-5.	12.	12.	13.	15.	15.	17.	24.	32.	39.	. 25	48.	54.	57.	50.	65	90	20.	66	20.	90	. 39	57.	-63.4	62.	
	631.	9155.	3574.	3435.	5.025	5936.	6757.	7405.	7306.	8230.	9566.	2005.	2225	2339.	3532.	4439.	5183.	8754.	2375.	. 2267	621y.	8456.	1055.	2736.	4622.	625U.	6970.	0571.	7540.	1945.	Junc.	4213.	4.77.6.	59762.3	2153.	
e n	77.	35.	• ت.	50.	,4.	74.	99	4.4	•;	٤٦.	-	54.	6,	37.	97	5	9	` `	· co	. 77	5.	۲. ·	ç O	84.	٠ د ک	25.	Ĉ,	31.	4,	<u>.</u> 5.	10.	ر د	0	10.0	ċ	

GEODETIC COORDINATES 32.40943 LAT DEG 106.37033 LON DEG									
4 T A	REL.HUM. Percent								
SIGNIFICANT LEVEL DATA 1600-39837 WATTE SANDS TABLE 9 CON'T	TEMPTRATURE AIR DEWPOINT DEGREES L'ATIGRADE	-55.8	-51.7 -53.7	-51.0	-51.4	-43.H	-43.5	-41.7	-42.3
ON ALTITUDE 3959.00 FEET MSL LY 53 STON NO. 537	PRESSURF GEOMETRIC ALTITUDE MILLIGANS MSL FEET		43.9 71895.7						9.0 106686.2

TIC COORDINATES 52.4U043 LAT DEG 56.37053 LON DEG		INDEX	KE F RACTION	333	300 \$	03029	620	2	ر 20	0000	200	2000		3000	1 200.85	1.330284	10028	1.000283	92000	30028	32000€	1.000280	•33027	. 2000°	1.000277	. 0002	2000	77000	70000	000.	9700	302	3025	33325	33358	200	2000	2 C O	770	200	2000
GEODETI 32• 106•		4	KNOTS	<u>.</u>	0.	٠.	٥.	1.3	.	2.5	0		()	7 7	7	2 2	5.7	6.1	6.5	0 · y	7.0	2.9	6.5	6.2	ن چور	5.7	Z	1		7.7	3.0		4.5	5.0	2.5	4.9	7.5	7.9	8 . ć	0	13.0
		9	DEGREES (TV)	·.	38.	38.	38.	ď.	38.	٠ م	9		o o o	ָ ס מ	• 0		3	, ه	38.	38.	39.	30.	• 0 •	۲)	6 1	2,1	~ 1 ~	3 .	. 0	12.4	•	J	~	٠.	-	Ç	Ų.	^	^	7.9.	œ.
S S	_	SPEED OF	SICNA	76.	676.3	676.	575	675.	\$75	74.	* ;	2 r	- r	2 2	4 0	۲ ر	7	. ~	7	5	7.0	2	50	5.	69	9	90	200	0 0 0 4	558.0	5.7	29	6	7	67	67	ç	29	53	ξ.	67
UPPER AIR DAT 1Polo23337 WHIIF SAUDS	TABLE 10	DENSITY S	MFIFE	-	$\overline{}$	1017.8	7	10.12.1	1000-3	70	•		•	•	•			7.98°	٥.	٥1.	29.	. r.	٠. /	7 n•	•	65	•	• • •	• • •		. 2	. •	0	٠. د.	٠	,	ζ,	. 5	-	٠.	
-		REL.HUM.		~1	52.7	50.4	1.87	۲.	œ,	• :		2.0 0.0 0.0	• -	• <	• •	, ,	, ,	,	5.	٥.	ç	7	7.	ŝ	٠ دد	<u>.</u>	زگن	• •	د. د	57.5	٠	,	•	-	٠ حر	•	٠,	7	33.4	11.6	:
r rst DP		EKALURE	- «·	•	•	3 • 4	•	•		•	÷,	•	• 1 c	X	1 °	u ~,	12.5	12.4	12.3	~;	.,		۲,	:	11.	11.6				10.0	10.1	3.6	9.1	ð. 6	υ.1	7.3	6.1	4 9		7.0	
9.00 FEET F OB23 MDP		4 1 1	F S	25.5	75.4	25.9	25 · 8	25.6	25.5	6.45	7447	74.1	 	23.7		75.6	>	21.9	21.7	21.4	21.6	30.6	20 . 2	20.4	20.5	19.9	19.7	* · ·	10.5		19.0	19.3	18.4	7.01	•	19.0	13.5	19.6	19.3	7.5	19.7
11Tubl 39U9.		PRESSURE	MILLIGARS			5.623		0.5.0	•	5, 7, 5	n • • • • •	დ ი — ა დ ს	0 0	0 0 0 0 0 0 0 4		0 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	0.448	641.0	638.1	535.1	5.55.0	₹. \$.	4,0,0	863.5	9.0.53	c.17.7	0.16.0	D • 000		2 C C Z	5°0'0	•	795.0	1.527	7.59.5		•		170.3	•	
STATION ALS JULY 85		GEOMETRIC		in m	000	133.	200.	300	400		500	000	• c	, C.C.			0.00	4,00	500°	699.	700	£003	900	000	100.	200.	300			0.0052	800	966.	000	100	200,	100	400	500.	.003	736.	800.

C COORDINATES 40043 LAT DEG 37033 LON DEG	INDEK OF Refraction	20002	00023	.00023	0302	.00022	•3302C•	- 00022	. 33022	• 3 3 3 2 2	~ 4	53000	22000	12000	1000	00021	_	1.000214	1.000213	.00021	1.000211	.0001	.33023	1.330279	.00020	.33323	62600	02000.	12000	2000		2000		2000		7000	2		1,000199	
GEODETIC 32.4 106.3	TA SPEED KNOTS	10.7		•		•	•	•	12.4	12.4	12.4	7 2 7	3	7.5	12.4	12.7	12.B	12.9	13.0	13.0	13.1	13.2	13.3	13.5	13.6	~ 1	•		•		3 L		. 7	•		· • ·		¥ 5 F	8.5	•
	WIND DA DIRECTION DEGREES(IV)	ď	,	ċ	∞	7	é	٠.	3	٠, ،	٠,	- 0	•	5 6 4 6 6 4 7 6 6 8				6.0		•		69.5	•	ċ	•	•	ᢤ,	٠,		• • •	•	٠,	•	• •	•	• ^	• .	•	78.2	•
DATA 337 4DS CON'T	SPLED OF Sound Knots	67.	67.	29		55.	666.7	. 99	99	99	605.9	565	• • • •	600	744	664	664	564	. 199	553.	663.	663	663.	662.	662.	299	999	760	<u>.</u>	: :	- 3	•	•	2 5	•				0 . 5 0 . 5 0 . 5 0 . 5	2
UPPFK AIR DO 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	DENSITY Sh/CH41C mETFR	~	-	ú	\$65.1	* *-	C C		3/	- 1	• •		•	• - ი	. 4	· ~	71.	ν. « α α α	65		5.1.	٠ •	÷.	۲,	5.	· .	ه اند ح	•	- C	•	ָ רֹי	, ,	• c	• ^	• •					•
n H	REL.HUM. Percent	10.6		Č		٠ ن	æ	۲.	•	•	•	· .	•	;	; ~	• ·	٠.,	23.4	3	٤.	٠ ١	5.	۶.	2.	•	٠.	·.	•	;	•	o r	•	•	•	•			•		•
r MSL	ER ALURE U FWPUINT CL NII GRADE	4.1	1.5	-	~ .	٤.	o•-	٠		-1.6	.	~ ·	* · · · ·	• •) · ·	; -	· ~		7.7-	9.7-	3.4-	-5.1	٥.	-5.5	ů	. T (-6.3		•	•	• 0	•	\$ · · · · · · · · · · · · · · · · · · ·	• • •	3 9 1		3 4	•	0 0	•
3969.00 FEET 0823 MDT 7	TEMPI AIR DEGREES	16.5		19.3	19.1	19.0	18.8	13.7	78.5	18.4	18.2	ا م ا	× · ·	9.7.	2.4	17.3	17.1	16.9	16.7	16.5	16.3	16.2	16.0	15.8	15.6	ഗ	,,,,	,,,	C • • •		7 - 7			~ ~	•	• ~		•	11.3	
TITUNE 40. 33	PRESSURF MILLIGAKS	-		•	_	-	•		•	•	$^{\circ}$	• ^	3 7	~	n	u (1)	• •	774.6	14	O.	~	- ₹		•	٠·٦		- (ъ,	o.				٦.		- 0	•	ე ქ		- 0	
STATION AL > JULY 83 Ascension	GEOMETRIC Altiture Msl feet	7900	0.000 €	100.0	9200.0	8700.0	0.00,2	£530°3	0600.0	6733.3	C•0023	0.0004	0.000	1.00EX		0.0042	y\$00°.	0.0095	9700.0	0.0084	0.0065	10000.0	10100.0	10:30.0	10700.0	10436.7	10510 0	0.00001	0.001	0.000	0.000	11100.0	11100	11100	1140		110000	11700	11500.0	1

GEODETIC CUORDINATES 32.403~3 LAT DEG 106.37033 LON DEG		SPEED OF	NOTS HEF	.9 1.30019	•0 1.00019	6.1 1.00019	6.2 1.00019	5.3 1.00010	319	1.00014	6.7 1.00019	.6 1.00019	4. 1.30019	1.00019	.2 1.00019	.0 1.33319	.9 1.33019	5.8 1.03019	.7 1.00019	5.6 1.00019	.5 1.00019	5.4 1.00018	3.0001	1.00018	5.1 1.00	.0 1.00018	5.0 1.00018	4.9 1.00018	1.00018	7.4 J.BUUJR	81666.1 /•	# 1000° L C - C - F	2,000.1 2,000.1	1,000.1	31000.1	.9 1.0001R	1.00018	.2 1.33318	1.0001	\$100018
		-	DEGREES (TN)	~	~	~	€ .	•	~ •	٠, ٠	, 4	. 💌	1	\sim	-	0	C	0	a . 1	~	~ ○ •	0.1	2	· •	κ. ο ο ο ο	æ	~	~	~ ` (_	n e	۰ ۰	8 0	• •	α	•	7	~	•	C
R DATA 0357 Ands	CONT	SPEED OF	2	658	657	657	657	657	656	0 0	655	655	655	654	554	654	654	653	653	653	652	259	750	100	651.3	651	650	650	550		6.70	7 7 7	0 4	9 4	879	647	247	647	647.	979
PPER AI 196667 White S	TABLE 10 CO	DENSTITY GM/CUBIC	FIFE	14.	=======================================	• 60	5	ک	0°208	0 • 0 0 K		7 7	~ ~ .	٠٠,	57.	٠ د.	٠,	81.	62	77.	76.	·	= 0		764.0		59.	57.	 	•	- (, ,	0 772	, ,	, ,		٠ ٧	34.	2	6
Þ Í	TA	REL.HUM. PERCENT			.•		26.3	•	29.0	• •				•	•	å	ž	α	~	_1		വ	•	nı	/ · · · ·		_	~ .	~^		Λ,		0 v				•	ഹ	: 1	62.3
186		BEADURE	Z .	•		-6.7	÷	٠		7-6-	. ~	. ~	~	~	7	~	•	,	~	٠,	•	~ 1	~ r			-6.b	٠,	÷		٥	٠	.	3 · ·				2	-5.1	•	1.4-
9,00 fff 0823 MDT		TEMPE	DEGREES	11.7	11.4	11.2	10.4	10.6	•	⊃ ດ			0.1	•	•	•	•	•	•		•	•	•	•	~		•	•	4.7	•	•	•	- 1 - 1	•						•
717 LDE 395 NO. 377		PRESSURE	MILLIBARS	67.	٠		ò	7.	•	ت			~	ċ	'n	;	~	:	•	÷	;	.j.,	٠ ۲	•	0.510	ं	æ	;	•	- ,		٠.	• •		100	; ;	,	-	٠ ح	
STATION AL 5 JULY E3 ASCENSION		GEOMETRIC		1900	9002	1100	5007	300	2 5	2600	2700	0	2	5	2	3233	3300	34.00	9	3630	\leq	2 5	2 0	2 5	14206.0	2	2	√ 200	2	3 9	2 5	י ב	35	2 5		2	9	2	2	ت

FUDETIC CUORDINATES 32.4UA3 LAT DEG 136.17333 LON DEG	INDEX PEED OF NOTS REFRACTION	.8 1.00018 .1 1.00018 .3 1.00018	1.0001	.2 1.00018 .3 1.00018 .2 1.00018	1 1.00017 1 1.00017 0 1.00017 8 1.00017	7 1.00017 5 1.00017 6 1.00017 5 1.00016	1.00016 1.00016 1.00016		7. 1.0001 6. 1.0001 7. 1.0001 7. 1.0001 7. 1.0001 7. 1.0001 7. 1.0001
<u>ق</u>	WIND DATA DIRFCTION SI DEGREES(TV) KY	arr	23.5	;:	0000	20.5 21.5 22.5 24.5	40000 40000 8.0000 8.0000	2 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	ころはいろいしてんか
. ATA 5.7 5.5 5.8 1 ք.ը	SPEED OF SOUND KNOTS	46. 46.	N N 4	7 T T T T T	543.0 542.7 642.4 642.1	41	2 2 2 2 4 ·	, , , , , , , , , , , , , , , , , , ,	6 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4
UPPER AIR DA 1867/220137 WHITE SANDS	DENSITY S GMZCUBIC MFTFR	1- 30 P	72127	714.1 712.2 717.2	7.80 7.06 5.40 7.40 1.00	2000 2000 2000 2000 2000 2000 2000 200	6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	2 2 2 2 2 2 4 4 4 4 4 4 4 4 4 4 4 4 4 4	567 567 567 567 567 567 567 567 567 567
ı TA	REL .HUM. PFRCENT	4 O (1)	SMNA	·	-38.	9500	· · · · · · · · · · · · · · · · · · ·	4 4 4 4 4 0 0	00000000000000000000000000000000000000
15	ER ATURE UFWPOINT CEMIIGPADE	2 2 3		~~~~	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	. ◆ ◆ ◆ ◆ ○		こりりんりょ	22000 200000 200000 200000 200
389.00 FEET 0823 MDT	TEMPI AIR DE GREES (11.5 12.5 12.5 13.5	22.7	77.77	00000000 00000000000000000000000000000	~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~
17ue 5 u• 337	PRESSURE	75° 75°	000		, , , ,	2 2 2 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	アグラーウェ	22. 10. 17.	0.000000000000000000000000000000000000
STATION ALT 5 JULY 85 ASCENSION R	GEOMETRIC ALTITJOE NSL FEET	0.00		3000	i i i i		00000	ပ်ပံသံသံဝပ်ခံ	1,500 1,900 1,900 1,900 1,500

C CUO?DINATES 4U043 LAT DEG 37033 LON DEG	INDEX Of REFRACTION	014 014 014	0001	00014		000014	4 4 4 4 7 7 7 7 7 7	.00013 .00013 .00013 .000013	1.000134 1.000134 1.000133 1.000132 1.000131 1.000131
GEUDETI 32. 105.	ATA SPLED KNOTS	11.6 11.3	10.9		10.3 10.5 11.0	11.3 11.6 12.9	12.6 12.8 13.0 13.1	######################################	
	WIND DA DIRECTION DEGREES(TV)	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	42.4 40.2 37.9	32.0 30.0 30.4 27.5	24.4 21.5 18.5 15.9	₩ C	, , , , , , , , , , , , , , , , , , ,	\$ \$ \$ \$ \$ \$ \$ \$ \$	14.1 14.1 22.0 24.0 31.8 31.8 31.8
7 7 S S 19 T	PLED OF SOUND KNOTS		35.	2 4 5 m	633.5 633.2 632.8 632.5	632.2 631.8 631.8	630.9 630.5 630.2 629.9 629.6	629.2 629.3 628.9 628.5 628.4	6 6 2 5 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6
HEPTH ATH DA 105 CO GISS WHITE SAMDS	DLNSITY S GM/CU31C MFTFR	5 2 4	36 37		0 P P O		6.00.0 6.00.0 6.07.4 7.05.7 6.04.7 7.10.0		00000000000000000000000000000000000000
, AI	REL.HUM. Percent	24.0 20.0 10.0		35.6		000-	4 4 4 9 4 4 4 4 9 4 9 4 9 4 9 9 9 9 9 9	44 5 5 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
1 "SL	ER ATURF L'APOINT CENTIUPADE	-71°C -21°1 -21°1	21.	-21.1 -21.1 -21.1	-21.2 -21.2 -21.2	-21.3 -21.4 -21.5		.v.~ 677.8	128 - 1 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2
2823 MUT	TEMPI AIR DEGKEES (16.00	-7.0 -7.5 -7.6	20 20 20 1 1 1 1 1	7.V S 8	10.1		112.5 112.8 113.0 113.1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
17066 3	FRESSURE MILLIBARS	10 0 4 4 10 0 4 4 10 0 4 4	~ * * * * * * * * * * * * * * * * * * *		• • • •	2355	4 4 4 4 4 4 4 6 6 6 6 6 6 6 6 6 6 6 6 6	> N M M N D	er er er er er er var var var var var var var var var va
STATION ALT 5 JULY R3 ASCENSION NO	GEOMETHIC ALTITUDE MSL FEET	19900.0 26600.0 30100.0	20200.0 20305.0 20400.0	20200-0 20600-0 20700-0 20800-0	2(930.0 21339.3 21130.0 21200.0	21300.0 21400.0 21500.0 21600.0	21706.0 21800.0 21900.0 22000.0 22100.0	22300.0 2400.0 22500.0 2270.0 22800.0	23500.0 23500.0 23500.0 23500.0 23500.0 23500.0 23500.0

ATION A	TITUDE	959.00 FEET	1 "SL		4 I R U2 J I	UATA 37		-	CUORDINATE
S JULY 83 ASCENSION	7 2 . ON		_	H	TABLE 10 CON'T	E.V.		106.	.46063 LAT DEG .77033 LON DEG
-	101175 190	10 N	9	3	3	90	4	-	4
1 2 1	16 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	AIR		1770	70031C	SOUND	DIRECTION DEGREES (TN)	SPEED	
					:	2		2	
0051			-35.4	21.5	1.69.	625.		13.5	115
003	•	Δ	-32.7	21.1		625.	43.2	14.7	315
1000	•	-15.4	\sim	30.€	•	6.75	· •	11.9	. noo12
ر د > 00	•	-15.4	_	ċ	•	r. E	Œ	14.1	15
5 OC	•	- 15.4	_	ċ	9	625	_	14.4	215
0055	•	S	•	÷	•	625	-	14.6	• 00015
4.50G			- 13.3	<u>,</u>	٠ س	625	Š	•	7
0094	•	10	-33.9	÷	54.	625	•	S	.0001
ر 4 کان			- 14.1	ċ	ر. س	524	σ.	15.5	.00012
6800	•	ċ	- 34.5	19.5	S)	929	•	15.6	215
006*	•	•	-34.4	ò	0,	424	\sim	16.1	715
5000		-10.0	-34.5	ċ	547.5	623	-	15.4	~
5100	•	~	34	ċ	•	673	^	16.7	15
5233		17	3.		•	623	~	17.1	~
5300		-17.5	~	0		672	7	17.4	112
563		- 17.7	3	÷	<u>,</u>	422	₩.	17.7	.13312
S 500	•	-17.3	<u>د</u>	•	•	622	S	17.8	7
2600	•	6 0	\$	•	7	622	•	۷,	.0000
57.30 56.53	•	•	•	•	•	621	•	6.21	= :
0000		'n.	\hat{S}	٠,	٠,	621		3 ° 7 L	\$1000 ·
	•	÷.	9 ;	•	• (629	v٠	- C	51000
200		•	^ *	• • c	_ 0	170	c r	Σ. ·	21000.
2 6		•	2 3 2 5	•	٠,	070	~ ^		
20.000	9 0 4 5	•	2 4	• 3		200	7.70	- 0	
			- 37.1			2 6	- ۴	2 2 2	ווייני
533			?		-	2 5	. ~		=
0699		7.02-	4.15-		0	619	T	7 8 7	Ξ
6739	•	7.02-	-37.6	•	•	619	Œ	19.5	.1000
.800		•	~	19.5		619	α.	18.	Ξ
00.69	•		-36.3	19.5	•	618	OC.	18.6	11066.
7000	•	•	•	19.5	~	618	α.	18.7	.10000.
7133	•	23.	70.0%-	14.5	-	018	Ç	a.e.	110000
3000	•	-21.4	0.0.	15.4	_		0	۳, ۵	11
7.730	•	21.	-38.8		•	517	0	18.0	.03011
00%	•	-21.8	35	•	•	617	0	14.9	11
2500	•	72.	<u>.</u>	15.4		617	ت	3.	•
26.00	•	25.	Э-	•		617	æ	χ. •	=
) 		-22.4		•	٠ ت	616	~	18.7	=
52.2		<u>7</u>	2.6%-	15.3	7.04.7	616.7	~	14.7	1.000112
							•		

CENTION A	03 NO. 125.	, 0823 HDF	ا د عب		White Saud	S		32.4	40343 LAT DEG
				I.	TABLE 10 CC	CONT			
) I C	PRESSURE	1646		REL.HUM.	Y 1 1	SPEED OF	O ONLY		
	MILLILARS	DECHEES	CETTICRADE		AFIFE	KNOTS	DEGREES (TV)	KNOTS	NEFRACTION
ó	~	2,5		19.2	7		7	18.7	0011
C	9	~	-43.1	19.2		•	•	18.6	.33011
C	. 4.	3	-40.5	19.2	_	Š	è	18.6	.33011
0	÷.	-23.5	07	19.2	٠,	~	α. ν. ο	18.6	. 30011
C	-	~	·	19.1	•	Š	Š	œ	.1000
o o	3 5 0 4	ر در ا			0	615.1	· •	r •	001
0 (• •	24.	•	15.1	· .	3	5.79		.0000
ي ر	. ,	, ,	5	•		•	J	ന	000010
0	,0,	7			J	•	₩.	~	.0001
<u>د</u> .	. 7 7	1.76-	•	•		•	₩.	~	.00010
J. 0	43.	6.42-	-41.7	•	:	ň	\sim	~	S
ပ္		8	_	•	٠	~	\sim	7	.00010
0		23	2 •	19.2	ж. ж.	513.2	_	17.0	0010
ے	œ	ς.	٠.	•	٧.	ċ	_	9	.00010
ن	37.	-25.3	~	19.3	٠,	\sim	$\overline{}$	16.7	3010
C	3	3	5.	·	•	~	•	15.8	00001 n
ں	. 4	2	-42+3	•	472.3	~	_	16.8	0000
Ü	~	9.92	43.	19.5	ė.	-	-	1 6 .8	00012
٠,	• •	5 . 9 ! 1	∹.	19.6		611.4	51.5	16.9	1.000105
	ن	-27.1	-43.3	~	467.7	-	_	15.9	00010
c	·	7.1.	-43.5	19.7	٠	C	2	17.0	00010
0	~	-27.6	~	15.7	,	$\overline{}$	\sim	17.0	.13313
C	9	-27.0	~	>	467.2	0	\sim	17.0	.00010
0	•	-76.1	*	0.01	•	•	^		00010
Ç	 	- 28.3	,	19.9	٠.	ċ	\sim	•	.0001
ڀ		ğ	44.	56.0		603.3	\sim	16.8	0010
٥,	ت	رم 35	-3	ċ	~	<u>.</u>	~	٠.	.00010
0	· .	0.62-	;	26.1	٠	œ.	~	\$	00010
0	÷	9	7 2	30.5	, 4.	20	-	_	,00,
Ö	<u>.</u>	23.	ů	20.5	3	æ •	~	_	.000
0	5.	L,	•	F 0 C	2.	۰,۷	~		.0001
Ç	;	U•0*-	ů	5 C• 4	٠,	C	~	15.4	.0001
0	12.	-10.2		3.0 €	٠ ٢	7.	•	-	3010
ت		3.5	Ġ	21.5	5.5	. \$0	•	•	.13017
Q	<u>.</u>	-36.7	-45.0	20.5	٠,	90	J		00011
Ç	٠. ب	- 71 • U	7.97-	30.02	7	35.	2	15.2	00010
c	7.	-11.	-46.4	25.7	· •	36.	•	_	.33939
0	ċ	- 11.5	-46.5	13.1		635.7	04.0	-	1.339399
C	£ 4 € 3	- 11.7	-66.27	4.1	-	č	,		2000
	,		•	•	•	,	:	د . • ع	, , , , ,

STATTOR ALTITURE 1 JULY 83	10.0	959.50 FEET 0823 MDR	15		UPPER AIR DATA 1Fo PUTUSSZ ANTTE SARUS	U. F. T. A. S. Z. Z. S. Z. Z. Z. S. Z. Z. S. Z.		6E0DETIC 52.40	COORDINATE
ASCENSION NO.	NO. 517			ij	TABLE 10 CON'T	T.N		, Ç	106.17033 LON DEG
GE OME TRIC	FPESSURE	₹ ₩	TEMPERATURE	4 F L . H U4 .	DENSITY	SPFED OF	40 0×12	ATA	INDEX
ALTITUDE		0 T W	T#TOT# TU	PINCENT	5.8/t Up 1t	SOUND	DIRECTION	SPEED	10
MSE FEET	MILLIBARS	DE GREES	ں		MF 1 F R	F NOT S	DEGREES(TV)	KNOTS	REFRACTION
11000	5.5 10	7.5.	-47.1	50.9	436.3	6.06.8	7.69	14.6	1.000008
1. UOC. O	195	-32.4	-47.3	21.Ù	4.25.5	634.5	7.0.7	16.5	1.000098
32100.n		1.28-	-47.5	21.0	. 7 2	6.04.2	71.1	16.6	1.000097
3 < 2 0 6 • 0		4.51-	9.27-	21.0	432.6	603.	72.0	14.3	1.000037
3,330.0	267	-33.1	9-27-	21.1	1.1.1.4		12.0	14.	1,000097
3,430.0	563	- 73.4	0.84-	21.1	1.0.7	603.3	7.04	14.3	1.00003
3.500.0		-73.0	-48.6	21.1	•	603.3	74.4	14.4	1.00009c
3,400.0	3	4.85	-43.4	21.6	6.434	5.02.7	75.1	14.4	1.000056
1,733.0		- 74.1	2.87-	٠١٠٤	.5.	5.32.4	75.9	14.5	1,000095
3.800.0		- 54 . 3	-40.3	21.3	-	.2500	7.97	•	1.00006
3<930.0		9.4.	7.64-	21.3	63	601.3	77.5	14.5	1.000075
3,5000.0	2 7 2	-34.3	7.67-	21.3	421.1	631.5	28.5	14.6	1.338394
33135.3		0.451-	4.65-	21.4	413.7	631.2	٠.67	14.7	1.330094
132003		- 35 - 3	9.63-	21.4	614.3		10.7	•	1.300094
13330.0		- 75.5	1.67-	21.4	414.9		8٠٠۶	14.8	1.333393
0° 9075 £		-35.3	6.67-	21.5	7.15.		80.3	14.7	1.000003
33535.0		- 40.)	-50.1	21.5	414.1	60000	61.1	14.5	1.00003
33639.0		7.9%-	-50.3	21.5	412.7	٠ <u>٠</u>	31.6	16.4	1.0000°2
7.5700.0	7.617	-36-5	-50.5	21.6	411.3	233.4	31.9	•	1. nuoù?c
3.5800.0		-36.7	-50.7	31.6	6.66.4		. :	•	1.000092
33600.0		- 37 · U	4.03-	•	404.5		"	•	1.00001
3.000.0		-37.2	-51.1	21.7	6.07.2	293.4	82.8		1.00001
3+100.0		4.61-	-51.3	21.7	S* 307	1.603	64.2	13.7	1.330001
3.200.0	473.4	-37.7	-51.5	21.7	4.14.4	80105	5.79	13.6	1.000090
34300.0		6.71-	-41.7	21.3	1.0.0	597.5	•	1.4.4	1.00000
14439 •3		- B. C	-51.3	21.8	4.11.7	597.2	34.1	•	1.00000
34530.0		7.8	-52.1	21.9	4°067	838.9	R. 38	13.2	1.000001
3+533+3	6.43	- 38.6	-52.3	51.9	L.64.		65.2	•	1.3303">
34730.0	5.47.5	6.81-	5.52-	21.9	347.7	-		12.9	1.000004
010 6		101			1 10 1	,,,,		4.3	330000

1.000086 1.000085 1.300085 11 LEAST UNE ASSUMED RELATIVE HUMIDATT VALUE WAS USED IN THE INTERPOLATION 6.6.

1.000084 1.000084 1.000084 1.000084 1.000088

1.000088

596.3 595.4 595.4 595.1

95.1

1,72.4

2,2,2 U. 4.52

136.7

10408

264.8 268.7 267.5 260.3

7.161

1.000087 1.000087 1.000085

30 NC1 FE05F - 801		CENSION NO. ** /
32.40043 LAT DE	WHITE SAMES	JULY P.S OB23 HDT
GEODETIC COORDINATE	186000337	VIION ALTITULE 3239.00 FEET MIL
	CITY ATR DATA	

STATION AL	1 T I T I I I I I	1444 00758	Σ.		TPCCCCARS	0 A 1 A 0		11 300 5 11	AT ANT GOOD O
JULT		0823 HDT			WHITE SAME	. 65		3.2	4(043 LAT D
ASCENSION	NO. 227			Ŧ.	TABLE 10 CON	T.N		106.	37033 LON DE
Gronf TELC	PRE "SUKE	1 E M P	<u></u>	KEL.HUM.	DENSITY	0	•	T A	INDEX
ALTITUDE MSL FEFT	MILLIBARS	DECREES	DEMPOINT	# 	GNZCUSIC MFIFE	KNOTS	DIRECTION DEGREES(TA)	SPEFU	OF HEFRACTION
) 7	~7	~	10	4	<u>~</u>	95.0	Y . Y	11.5	
0013	2.5.5	L. 54-	-50.5	3.7**	3.0.6	c	7.76	11.4	0000
110ء	50	. 1	\sim	* C*	۲،	92	۶.	11.2	.0000
20(ĵ	. 7	-3	•	7	91	ç	11.1	-
c 33 j	7	-42.1			2	5	47.7	•	.00000
0436	40	-43.3			175.3	Ch.	8.8%	10.8	~
CCSO	å.	-45.6			7.	9	6.66	C	20000
((1)	9	63.			ز	C S	130.2	13.6	.0000
C.2.3	7	ζ,			7.11.	9	100.2	10.4	•133338
) 	۳,	77			310.3	o.	1001	10.3	•0000•
0069	, U .	77			\$ ° K O *	8	130.4	10.2	.0000
300/	7	-44.5			\$0.60	8	100.4	10.0	.0000
7100	. C	-44.3			40 402	æ.	100.5	0	1.000082
7200	? .	0.57-			ر د در	30 (30 (100.5	2.5	.0000F
7 300	ο,	-65.3			6.5.5	αc i	100.7	9.6	•0000
7407	ა:	0.57-			\$ \$ \$ \$ \$ \$	~ 5	100.7	\$°°	*0000°
7500	,	•			2.1.5	~ '	100.8	٠ • •	.00008
700/	7 -	1.02				× .	100.5	2.6	. 0000%
0.00000	7.00	3 -				7.045	100.	r. •	1.000086
0 0	' '	, ,				0 1		• 0	00000
	- 3	140.4			on war	0 0	* 0	- c	
	. /	, ,				9		•	10000
700		-47.4				Oar	- V.	° α	9,0000° 1
1333	7	47.			151.7		0.4	α.	70000
((7)	, J	3			7. C.	8	\$ 60%	۲. د	20000
536	2.853	φ.			F 0 7	84	٥٠ ۶٨	R . 7	.0000
5500	•	2.07-			14.8.	6.3	5.6.1	8.7	,33337
870O	~1	40			7.4.	83	7.96	ສະ ດ.	20000
) C 3 (-49.1				~	٧٧.1	λ. 8.	.00CC.
669		·			.*	82	75.6	٥.	0000
ĵ.		· 5.7			•	%	8.76	•••	.0000
5100	1.517	7			-	5.2	98.1	9.1	.0000
,200 ,200	ري د	150.0			_	Į,	5.86	. v	.0000
300,	17	u			2	8	ه. ه.>	6.6	\sim
0035	. 16.1	: :			٠,	2	¢0.0	7 ° C	2
, 5 C	<15.1	•			٠	91	•	9.5	1.00007>
() () () ()	14.1	9			٠.	ن ح	ري ا	٠. د	20000
0.0025	1.5.1				3 * 7 ° 2	2.0 m.c	10.50	9.0	1.00004
30.5	_	7				0	0	•	0000

** AT LEAST ONE ASSUMED RELATIVE HUMINITY VALUE WAS USED IN THE INTERPOLATION.

ETIC COORDINATES 32.44043 LAT DEG 06.170.53 LON DEG	INDEX OF REFRACTION	1.000674 1.000074 1.000073 1.000073	70000 70000 70000 70000 70000 70000	1.000.71 1.000.71 1.000.70 1.0000.70 1.0000.70 1.0000.70	00004 00004 00006 00006 00006	1.000067 1.000066 1.000066 1.000066 1.000066 1.000066 1.000066 1.0000664 1.0000664
6E0DETIC 32.4 106.3	DATA SPEEU) KHUTS	~ x x o C		01111111111111111111111111111111111111	2001111100	
	AIND DA DIRFCIION DEGKEES(IN)	104.8 106.1 107.5 103.8	1112. 1115. 1115. 115. 16.	117.5 115.6 120.6 121.2 121.2	125 1 1 1 1 2 2 3 3 4 3 4 3 4 3 4 3 4 3 4 3 4 3 4 3	C M C C C C C C C C C C C C C C C C C C
₽₽1₽ 37 ₽S	SPEED OF SOUND KNOTS	579.9 579.6 579.8 579.0		_		572.9 572.9 572.5 572.5 572.5 571.6 570.5 570.5 570.5 570.5 570.5
UPPER ATR DATA 1°600703737 WHITE SANDS	DENSITY GMZCIBIC NETER	5.00.0 7.00.7 7.00.7 7.00.5 7.00.5		~ ~ ~ ~ ~ ~ ~ ~ ~	WE W	
- A	KEL•HUM• Pfkcent					
.919.00 fttt "st ,0823 MVT	TOMPERATURE ALC DEMITGRADE CPE, DEMITGRADE	6 8 3 5 4 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	ក្រុស្សស្ត ភេឌសស្ត ភេឌភភ ភេឌភ	4.4.4.4.0.0 • • • • • • • • • • • • • • • • • • •	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	\$\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\
111001 1923.00 FE OB23 MOT NO. 327	PPESSURE PARTICIONAL PROPERTY	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	00000000000000000000000000000000000000	00 7 F C M 4 C 0	
STATION AL. 5 JULY BS ASCENSION P	CLOMETRIC ALTITUDE MSL FEFT "	3.9.00.0 4.0000.0 4.0100.0 4.2500.0	C400 C400 C400 C400 C400 C400	1000 1100 1200 1300 1400 1500	41700.0 41800.0 42100.0 42100.0 42200.0 42300.0	7 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

DETIC CUORDINATES 32.46043 LAT DEG 106.37033 LON DEG	INDEX OF HEFRACTION	33035	• • •	00000		1.000061 1.000061 1.000060	90000	000005	0005	00000		1.000055	1.000057	1.0000% 1.0000%	1.000056	00000	1.000055	\$0000	30000	1.000054
6EODE TIC 32.4u 106.33	ATA SPEED Knots	ν. 2. ε. 2. ε.		16.2	16.5	16.5	• •	16.0	15.3	15.5	15.3	15.1		14.9	16.0	14.6	14.4	•	•	- C - 7 - 7 - 7 - 7 - 7 - 7 - 7 - 7 - 7
	WIND DA DIRECTION DEGREES(TN)	√ ~ a	1	, , ,		158.5 157.8 157.1	. 6	3 F	\sim \sim $_{\rm c}$. U 00,	147.3	144.7	141.0	159.7 137.8	135.4		1 52.6	-	5	129.5
DAIA 337 HDS CONT	SPEED OF Sound Knots	5.5 G 5.6 G 5.6 G	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	567	56	565 565 555	555	564		25.2	561	561	560	550	550	25.5	559	558	en a	55.8
UPPTH AIR DAIA 1PCCOST337 WHITE SANDS TABLE 10 CONT	DEPSITY GMZCUBIC MFTFR	284.5	7.0°5 7.0°5 7.0°5	277.3	37.0	8.575 8.175 8.075	6000 6000 6000	20°.0 7.67.3	265.1	7	0.00 0.00 0.00	250.25	0.00° 0.00° 8.00°	754.5	300	250.0) (6.29.	745.1	747.1 744.1
» (1	RFL.HUM. Pekceni																			
989.00 FELT #5L	TEMPERATURE AIR DEMPOINT DEGREES CENTIGRADE	0.00 0.00 1.1.1	1 60° 1	7.09-1 7.09-1 7.09-1	-61.4	-62.6 -62.2 -62.5	-62.3 -63.1	-63.4	163.9 164.2 165.5	1 64.0 8.00 8.00	165.4	-65.7 -65.3	_65.4 _66.1	-66.2 -60.3	166.5	-46.0	-67.1	-67.3	-67.5	7.70- 67.4
17U0 £ 3	FRESSURE	174.5 173.7	172.0 171.2 171.2	יז מצייט (~ ~o	165.4 164.6 163.8	65. 52.	-0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	7 2 3 5	5	154.3	, , , , , , , , , , , , , , , , , , ,	151. 176.5	,	140.3	٠.	٠.	نام د	14 5 6 C
STATION ALT 5 JULY 83 ASCENSION N	GEOMETRIC ALTITUDE MSL FEFT	2900. 4600.	44700.0	0097	480 n.	200	5430.	5500. 550n.	5800°	6000 6100	6230.	400. Sun.	60r.	800. 900.	7000. 710r.	7230.	7400.	:00:	7636.	00.

UPPER ATH DATA

STATION AL	TITURE 30	59.60 FEET MSL 0823 MDP		1867320757 WHITE SANDS			GFODETI 32.	C COORDINA
CENSION	NO. 577		7.1	E 10	N.T.		106.	37033 LON DE
GEOMETRIC	FRL SSURE	TEMPERATURE	REL. HUM.	PLNS11V GM/CHOTS	SPEED OF	0 0 1 1 2 3 0 1	ATA	INDEX
<u>ب</u> د	MILLIBAKS	FES CEN	E	MFTER	KHOTS	DE GREFS(TN)	KNOTS	HEFRACTION
30 SZ	143.	÷		0.245	55	~	13.9	0000
	142.			24240	557	1 26.0	14.9	1.0000.
(3	141.	-58.4		741.0	557	S	13.9	1.000054
$\overline{}$	141.	-68.5		3* 6 * €	5.5	•	14.0	1.000053
$\overline{}$	140.	ŝ		232.0	557	~	14.1	1.000053
	179.	- 63.9		6.55.	555	₽	14.3	1,000053
_	1 ² 3.	66		40 to	555	ru	14.4	1.000053
_	138.	2.69-		(•96	555	_	14.5	1.000055
. ~ .	1,7,	69		235.7	556	_	14.7	1.000052
_	-	\$		C • 5 C C	555	_ (14.8 8.4	1.000052
	9 : -	7 • 64 · 1			Λ u	• •	0.4	1.000052
	• •	7 7 7				•		1000001
	7.1	\$ -1,12 =		1.010	7 2 2	• -	16.6	1,000051
. ~	173	-70-		1 6 7 6	5 6	, ~	14.0	1,00051
-	137	-70.0		268.1	554.	8	13.4	1.00001
	132.	-75.8		127.	55	9	12.9	1.0000.1
_	171.	2.0.4		724.1	554	- :	12.4	1.00005 0
C'1	1 7 ().	-20.7		8°726	554	Š	12.0	1.000050
	110.	-70.5		9. 2.2.	554	ż	:	1.000050
r .	<u>ب</u> .	-70.3		15. C	554	. 2 ,	11.2	1.00004
-	1.2 S.	- 70• 1		ar • 1,7 €	555	46.	10.9	0000
1	ا ا	თ.		310.6	555	ڻ.	10.6	0000
	157	<u>.</u>		1 4 t c	555	55.	6.0	0000
	3 7	: د		۵	255	5	o .	33066
_ ^	3 6	<u>ک</u> ز		2°31c	555	or i	en (3000
	1.5	ζ,		2.962	555	7.7	7.	20000
- 、 -	• ·	• • •			227	x (70000
-	• · ·) (/• / 1 .	^ ·	· .	0	*0000
	<u> </u>	• •		7.1.7	^ .	= '	0	*****
		20.02		, c. c.	777	,	- ^ ^	7 * COCCC *
-		•				٠,	- 0	
- -		5 5		,	22	- !	r (
~ ~	• • • • • • • • • • • • • • • • • • • •	2.0%		ו / [/	4 .	• ·	- f	3000
	• • • •	2 ;		5°40'	554.	, ·	× •	7
	: :	• •		٠ د د د د د د د د د د د د د د د د د د د	> > 5.4	3 '	× ·	*0000
~ ~	116	• c		0.75°	r. v	9,	ა და თ	20000
· ·	• •					•) P	
51800.0	1 2 2 2	4 - O - C - C - C - C - C - C - C - C - C		0.000	900	787		- -
	-	•		•	•	'n	•	•

1 AT 13N 5 JUL Y	1100E 5	7.7.00 FEEF "SL 0823 MDT			54 TA 5		6£ UDE T3	6E UDE TIC COORDINATES 32.4U043 LAT DES	
ASCERSION N	NO	•	AT.	TABLE 10 CON'T	T.			ב כו מי	
GEOMETRIC Altitude	FRLSSURE	TEMPERATURE AIR DEMPOINT	REL·HUM. Percent	nt PSITY GM/CUDIC	SPEED OF SOUND	WIND D	ATA SPEFD	IND EX Of	
MSL FEET	MILLIBARS	:S CL		MFTER	SICNA	DEGRFES(TN)	KNOTS	REFRACTION	
5 1930.0	116.	¥.04-		201.1	2	267.5	9. 5.	G	
5 < 000.0		-70.7		1,0.9	554.	300.1	9.2	,00000	
52100.N		~		198.5	5.5	305.4	7.6	*0000°	
5.230.0	115.	9		1.67.61	555	310.2	C.	• 0000	
5.300.0	114.	-69.5		1.541	^	112.1	10.3	*0000	
5.400.0	113.	-69.1		- 1	556.6	* 7 •	10.1	2	
5 2 5 3 0 • 0	113.	-63.7		193.0	.	316.5	æ .	30006	
52609.0	717	1.00.1		0°17'			٠, ۳		
25/00-6	112.			7 0	~ "	_	•		
0.000	= :	3 · / 0 ·			n •	310 3	ت ع م		
1.00013	- :	0.791			٠,	-		1,000041	
5 1500.0	2	7.00			550		00	7000	
53200.0		, oo e		166.7	100	•	•	00000	
53300.0	198.	-67.0		12 4.9	55	8.778	7 • 8	7(
5.400.0	-	-67.2		185.1	559	321.9	5.2	.33004	
5,500.0	16.7.	-67.3				322.9	7.2	*0000	
53600.0	_	-67.5		101.5		321.9	& • •	* 000 J	
53700.0	100	6		100.		120.7	\$ • \$	00000	
5.2800.0	100	8-19-		6.071			•	•	
5 3900.0	- 22,	29		177.5		317.0	•	1.00000	
0.000.0	• C : C					· · · · ·	(• n •	0.0000	
0.00.73		7 + 8 + 1				3 - 7 - 2 3 - 1 - 2 3 - 3 - 3 3 - 3 - 3 3 - 3 - 3 3 - 3 - 3	- «,	1,000034	
0.00222				. ^	557.5	<i>.</i> \sim	5.9	0000	
54400.0	11 6	-68.3		175.0	557	317.9	F • 3	0000	
54530.0	100	-66.5		174.1	~	320.0	4.2	10000	
54500.0	101	- 48.1		177.	557	126.4	4.2	.0000	
5470C.0	101.	- 58 • 0		ر• <i>د</i> ۲۱	5.5	•	۲.۶	8	
54630.0	1 5.0°	-67.4		171.5	S	339.1	4.2	1.0000 t	
54900.0	10C.	-67.9		$\overline{}$	553.	345.2	•		
5 50 3 0 • 3	36	9-29-		153.6	<u>د</u>	151.0	7	0000	
55130.0	• 60			159.5	558	356.3	4.7	1.00001	
55536.6	# 0	-67.0				~ .	3 (2000	
55.70.0	رن د د	•		4.4.5. 	200		i i		
25430.0	. 20	67		•	200		•		
\$550°.0	- 25			164.R	, 55 g	11.6	•	0000	
< 5600.0 0.0035	• • •	5		٠,			٠	0000	
55700.0	• • • •	-67.1		٠. ٢	5.79.2	3 · C	^ · ·	0.0000.0	
>>anacc		7./0-		. • .; с.	>>%	•	•	_	

UPPER NIR DATA

TES Deg De G

SIAIIDA AL	ALTITUDE . 3	CALOU FEET MSE		758C501031	~ · ·		6E Ont 11C	CUORDINA
CENS FUN	No. 517	(AC) 1801	ĄŢ	_	F-1		106.	166.77033 LON P
					•			
GEOMFTR1C	FRESSURE	MF.E	KEL.HUM.	PENSITY	SPEED OF	0 0 2 1 3	ATA	INDEX
ALTITUDE	Z	ALCHER CLATTERANT	PERCEA1	687(UE10 mf 16.6	SOUND	DIRECTION	SPEED	06
						A CHARLES OF THE	2	
0.00623	95.5	-60.7		161.3	559.4	50.0	5.7	1.0000
000	٠	-60.0		100.4	95	₩	2.7	1.0000
109	5.4.5	9		150.6	ç.	8	5.4	1.000u
500	. *	-66.7		153.7	5.5	~	5.3	1.00003
200	₹ 5	ş		157.8	50	2002	6.1	1,00003
, ()	.	- (6.5		15.7.0	9	_	6.2	1.0000 4
1. COND.	92.7	7.07		15.5.1	550.2	34.4	6.2	1.0000
000	• 7.5	-60.3		155.	550	•	6. 3	1.33003
	- :	7.99-		7.4.4	090	•	۳. ۱ و	1.0003
יו הול					757	\sim 0	٠٠ ١	
	, u	ر ا ا			^ •	2 P S S S S S S S S S S S S S S S S S S	o • •	1. UUUUU
100		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		151-1		٠ ٧		0000
200	. O.	65		15.0	561.1	>7.1	7.1	1,0000
330	89.	-65.6		140.5	561	0		1.00003
0.7	2	-65.5			551	~	7.5	1.30003
530	ac a	-65.4		147.3	561	62.3	5.2	1.00003
000	2.7.7	-65.4		147.1	561	51.5	•	1.00003
200	oc. i	·C		146.7	61	01.1	8.7	1.90003
300	٠ ۵	S.		145.5	61	6 N. A	0.1	1.00003
000	ur i	\$		1.44.7	79	0	٥. ₆	1,00003
000	96	-65.U		14.0	62	•	10°C	1.00003
100		6.79		14.3.1	5 5 5 5	٠.	10.4	1.00003
207	J .	-64.9		147.6	262	•	10.4	1.00004
	. .	2.79-		141.5	5 \$ 2	œ.	11.3	1.00003
		0.401		ς (552	e o	•	1.00003
	. :	0.4.0.1 			700	* x	•	1.0000
	. د	1 - 0 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -		, , , , , , , , , , , , , , , , , , ,	700	٥	٠	\$0000 ·
0	• •	. 1		4 7 4 4	2 4 4	ς c c α		* CCCC •
	, · ·	7		٠,	7 4	• 0	•	
000		164.1		. ~	9 9	7.65	• •	1,1000
100	2	-64.6		50 46		50.	11.0	1.0000
2 J.C.		-63.9		- 7	553	0.00	•	1,0000
330	•	-63.E		7	563	40.1	•	1303
(00)	.	-53.7		₩,	563	60.3	•	9
5500	-62	*7		1.55.7	. 99	65.2	•	339
003	7	~		_	Şφ	Š	12.2	000
0025	79.	-63.4		1,11.2	264	68.3	•	1.10002
57830.0	76.6	-43.5		_		72.1	٠	1.00002

IC CUORDINATES 40043 LAT DE G	INDFX OF REFRACTION	00002 33032	1.000023 1.000023 1.000028	1.000028 1.000028 1.000028	20000	30005 30003 30005	1.300027	1.000027	1.000027	1.000025	00002	2000	1.330026	1.333325	90000	50000	1.000025	20000	70000	2000	(50000	0000	1.000024	
660b611C 32.4 106.1	ATA SPEED KNJTS	# 67 C	7 7 7 7 7 7 7 7 7	15.3	16.6	16.8	• •	18.1	18.4		18.0	17.7	• •	17.2	- ~	16.7	20.0	15.1	2.5	13.6		12.5	•	11.5	
	WIND DA DIRFCTION DEGREES(TV)	77.0		\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	¥ 1 × 4	8.50 8.50 8.50 8.50 8.50 8.50		45.4 96.1	96.7 97.3	98.4	7.00 7.00	101.	• •	101.0	105.1	106.3		106.4	7.90L	⊃ √ .	106.5	•	į	136.6	1
R DATA OUTS7 ANDS CONTT	SPEED OF SOUND FOOTS		\$ 56	564.7 564.8 564.8		767		565.		565.	565.	565	555.4	555.3	2.0	\$	567	Λ.	757	557	ກ	68	φ. 9 :	568.6	,
UPPFENTED DATE PATE POLITION OF TABLE TO CONFT	DENSITY GMZCUBIC BFTFR	1,000	· ^ ^	1.00 0.00 0.00 0.00 0.00	7 7		· (150.8 160.2	r 0	119.3	117.1		114.7	114.1	0.00	112.7	111.0	110.4	2004	, o , o , o , o , o , o , o , o , o , o	1361	167.5	-	101.	;
u TA	KEL.HUM. PFRCENI																								
3039.00 FEET *SL OB23 MIT 7	TEMPERATURE AIR DEMPOINT DEGRES CENTIONADE	-63.3 -63.2	-63.1 -63.1	1 6 6 5	33	-62.7 -62.7 -42.3	29	-62.5 -62.5	-62.5	-62.3	-62.2	-62.1	3 1 2	-61.8	5.2	5;	-61.5	-61.1	0 · 0	3 3	-50.6	•	-40.4	7.07.	
ALTITUPE 303 33 QI N NO. 337	FRESSURE MILLIDARS	77.9	77.1	74.0 74.0 74.0 74.0	75.27	/ m 3		7.57	74.3	71.6	7 C. 9		5.5		• •	•	7.0		N = 0 1		\$. V &	65.0	•	65 • C	•
STATION AL 5 JULY 33 ASCENSION	GEONETRIC ALTITUDE *SL FEFT	5,4900.0	6.203.0	60533.3 60533.3 63633.3	6.730.0 66.30.0	61033.0	61200.0	61,003.3	61530 °C 61600 • 0	6 17 00.0	6.1900.0	6.136.0	0.0075	C+C) +70	6.000.0	6.730.0	0.00618	6.5030.3	0.00166	62300.0	63430.0	6.5533.0	63535.3	0.00.0 0.080.0	,)

7.2 10.00 1.00000 1.00000 1.00000 1.00000 1.00000 1.00000 1.00000	10.6 10.6 10.6 10.6 10.6 11.7 10.6 11.7
0.000000000000000000000000000000000000	\$5555555555555555555555555555555555555
\$669.3 \$669.6 \$569.6 \$569.6 \$569.6 \$569.6 \$570.2 \$70.2 \$70.2 \$70.2 \$70.2 \$70.2 \$71.2 \$71.2 \$71.2 \$71.3	63.0 569.3 86.7 7.5 10.2 569.8 86.7 7.5 10.2 569.6 7.7 5 10.2 569.6 7.2 569.
5669.8 570.2 570.2 570.2 570.2 570.2 570.2 570.2 570.2 571.2 571.2 571.2 571.2 571.2 571.3 571.3 571.3 572.3 5	10 10 10 10 10 10 10 10
559.9 570.1 570.2 570.2 570.2 570.2 570.2 570.3 570.3 571.4 571.6 571.7 571.7 571.7 571.7 571.7 571.7 571.7 572.3 573.3 574.3 574.3 573.3 574.3 573.3 574.3 573.3 574.3 573.3 574.3 574.3 574.3	559.9 570.1 570.2 570.2 570.2 570.2 570.2 570.3 571.2 571.4 571.2 571.2 571.3 571.3 571.3 572.3 572.3 572.3 572.3 572.3 572.3 572.3 573.3 574.3 574.3 574.3 574.3 574.3 574.3 574.3 574.3 574.3
570.2 570.4 570.6 570.9 571.0 571.2 571.2 571.2 571.2 571.2 571.3 571.3 571.3 572.3 573.9 574.1 574.1	570.2 570.4 570.6 570.9 571.2 571.2 571.2 571.2 571.3 571.3 571.3 571.3 571.3 571.3 572.3 573.9 573.9 574.1 574.1 572.3 57
\$ 570.6 \$ 570.7 \$ 570.7 \$ 571.0 \$ 571.2 \$ 571.2 \$ 571.4 \$ 571.2 \$ 571.4 \$ 571.2 \$ 571.4 \$ 571.2 \$ 571.4 \$ 571.2 \$ 571.4 \$ 571.4 \$ 571.4 \$ 572.2 \$ 5	\$570.6 \$570.7 \$570.7 \$571.0 \$571.2 \$571.2 \$571.2 \$571.2 \$571.2 \$571.3 \$571.3 \$571.3 \$571.3 \$572.3 \$5
571.2 571.2 571.2 571.2 571.4 571.5 571.7 571.7 572.3 57	571.2 571.2 571.2 571.2 571.4 571.5 571.7 571.7 572.7 572.3 573.3 57
571.0 571.2 571.4 571.4 571.7 572.3 572.3 572.3 572.3 572.3 572.3 572.3 572.3 572.3 572.3 572.3 572.3 572.3 572.4 572.5 572.5 572.5 572.6 65.7 16.6 10.00 573.1 65.7 16.6 10.00 573.1 65.7 16.6 10.00 573.1 65.7 16.6 10.00 573.1 65.7 16.6 10.00 573.1 65.7 16.6 10.00 573.1 65.7 16.6 10.00 573.1 65.7 16.6 10.00 573.1 65.7 16.6 10.00 573.1 66.9 16.6 10.00 573.1 67.7 16.6 10.00 573.1 67.7 10.00 573.1 573.1 67.7 10.00 573.1 574.1 76.2 10.00 574.1 76.2 10.00 574.1 76.2 10.00 574.1 76.2 10.00 574.1 76.2 10.00 574.1 76.2 10.00 574.1 76.2 10.00 574.1 76.2 10.00 574.1 76.2 10.00 574.1 76.2 10.00 574.1 77.7 10.00 574.1	571.0 571.2 571.4 571.4 571.7 572.3 572.3 572.3 572.3 572.3 572.3 572.3 572.3 572.3 572.3 572.3 572.3 572.4 572.5 572.5 572.6 65.7 16.6 10.00 573.0 65.8 16.6 10.00 573.0 65.8 16.6 10.00 573.0 65.8 16.6 10.00 573.0 65.8 16.6 10.00 573.0 65.8 16.6 10.00 573.0 65.8 16.6 10.00 573.0 573.0 66.9 16.6 10.00 573.0 573.0 66.9 16.6 10.00 573.0 573.0 573.0 573.0 573.0 573.0 573.0 573.0 573.0 573.0 573.0 573.0 573.0 573.0 573.0 573.0 573.0 574.1 574.1 574.1 574.1 574.0 67.7 10.00 10.00 10
571.5 571.5 571.5 571.5 571.5 572.7 572.7 572.7 572.7 572.7 572.7 572.7 572.7 572.7 572.7 572.7 572.7 572.7 572.8 572.8 572.9 573.9 574.9 57	571.5 571.5 571.5 571.5 571.5 572.7 572.7 572.7 572.7 572.7 572.7 572.7 572.7 572.7 572.7 572.7 572.7 572.7 572.8 572.9 572.9 573.9 573.9 573.9 573.9 573.9 573.9 574.1 57
57.15 57.17 57.17 57.17 57.27 57	57.15 57.17 57.17 57.17 57.27 57
571.9 572.2 57.2 16.1 1.0000 572.2 57.2 16.5 11.0000 572.3 57.7 16.6 1.00000 572.4 573.9 5	572.3 57.2 57.2 57.2 57.2 57.2 57.2 57.2 57.2 57.2 57.3
572.2 572.2 572.2 572.2 572.2 572.3 572.3 572.3 572.3 572.4 572.3 57	572.2 572.2 572.2 572.2 572.2 572.2 572.2 572.3 572.3 572.4 572.3 572.4 572.3 572.4 572.3 57
572.3 572.5 572.5 572.7 65.7 572.7 65.7 573.0 573.1 573.1 573.5 69.4 15.4 10000 573.9 573.9 573.9 574.1 57.7 16.4 10000 573.9 574.1 57.7 16.4 10000 574.3 76.2 16.4 10000 574.3 76.2 16.4 10000 574.3 76.3 16.4 10000 574.3 76.3 16.4 10000 574.3 76.3 16.4 10000 574.3 76.3 16.4 10000 574.3 76.3 16.4 10000 574.3 76.3 16.4 10000 574.3 76.3 17.1 10000	572.3 57.7 16.7 1.0000 572.5 59.2 16.6 1.0000 572.7 65.7 16.6 1.0000 573.0 63.8 16.4 1.0000 573.5 66.9 16.4 1.0000 573.6 69.9 15.4 1.0000 573.8 7.5 16.4 1.0000 573.9 7.5 16.4 1.0000 573.9 7.5 16.4 1.0000 574.3 7.5 16.9 1.0000 574.3 7.7 16.9 1.0000 574.1 7.7 17.6 1.0000 574.1 7.7 17.6 1.0000 574.1 7.7 17.6 1.0000 574.1 7.7 17.6 1.0000
572.7 572.7 572.7 573.0 573.0 573.0 573.1 65.4 16.4 10000 573.8 573.8 573.8 71.5 16.4 10000 573.8 71.5 16.4 10000 574.3 76.2 16.4 10000 574.3 76.2 16.4 10000 574.3 76.2 16.4 10000 574.3 76.2 16.4 10000 574.3 76.2 16.4 10000 574.3 76.2 16.4 16.0 10000 574.3 76.2 16.4 16.0 16.	572.7 572.7 572.7 573.0 573.0 573.1 65.4 16.4 10000 573.8 573.8 573.8 573.8 73.0 16.4 10000 574.3 76.2 16.4 10000 574.3 76.2 16.4 10000 574.3 76.2 16.4 10000 574.3 77.7 16.9 10000 574.3 77.7 16.9 10000 574.3 77.7 16.9 10000 574.3 77.7 16.9 10000 574.3 77.7 16.9 10000 574.3 77.7 17.1 10000 574.3 77.7 17.6 10000
572.4 62.2 16.5 1.0000 573.0 63.4 16.4 1.0000 573.1 66.8 16.4 1.0000 573.6 69.9 15.4 1.0000 573.8 71.5 16.4 1.0000 573.9 75.0 16.6 1.0000 574.3 77.7 16.9 1.0000	572.d 62.2 16.5 1.0000 573.0 63.4 16.4 1.0000 573.3 66.8 16.4 1.0000 573.6 69.9 16.4 1.0000 573.8 71.5 16.4 1.0000 573.9 75.0 16.9 16.9 1.0000 574.3 77.7 16.9 1.0000 574.1 70.7 16.9 1.0000
5 573.5 66.7 16.4 1.03030 55.3 16.4 1.03030 55.3 16.4 1.03030 55.3 16.4 1.03030 55.3 16.4 1.03030 55.3 16.4 1.03030 55.3 16.4 1.03030 55.3 16.4 1.03030 55.3 16.4 1.03030 55.3 16.4 1.03030 55.3 16.4 1.03030 55.3 16.4 1.03030 55.4 16.4 16.4 16.4 16.4 16.4 16.4 16.4 16	573.5 573.5 573.5 573.5 69.4 15.4 10.000 573.9 71.5 16.4 10.000 573.9 71.5 16.4 10.000 574.3 77.7 16.9 10.0000 574.3 77.7 16.9 10.000 574.3 77.7 16.9 10.000 574.3 77.7 17.1 10.000 574.3 77.7 17.6 10.000 574.3 77.7 17.1 10.000
7.5 573.3 66.8 16.4 1.3333 7.7 573.5 68.4 15.4 1.3333 7.5 573.6 69.9 15.4 1.0300 7.5 573.9 73.0 16.4 1.0000 8.1 574.1 74.6 16.9 1.0000 7.5 574.3 77.7 16.9 1.0000 7.4 574.0 60.9 17.1 10000	7.5 573.3 66.8 16.4 1.3333 7.7 573.6 69.9 15.4 1.3333 7.8 573.8 71.5 16.4 1.0000 8.5 573.9 73.0 16.5 1.0000 8.1 574.1 74.6 1.0000 7.5 574.3 77.7 16.9 1.0000 7.4 574.0 60.9 17.6 1.0000
7.5 57.6 69.7 15.4 1.3333 7.5 573.6 69.9 15.4 1.0300 7.0 573.8 71.5 16.4 1.0000 8.1 574.1 74.6 16.5 1.0000 7.5 574.3 77.7 16.9 1.0000 7.4 574.3 77.7 16.9 1.0000	7.5 575.6 69.7 15.4 1.9333 7.5 573.8 71.5 16.4 1.0300 8.5 573.9 73.0 16.4 1.0000 8.1 574.1 74.6 16.5 1.0000 7.5 574.3 77.7 16.9 1.0000 7.4 574.3 77.7 16.9 1.0000 7.4 574.0 60.9 17.6 1.0000
7.5 573.8 71.5 16.4 1.0000 2.5 573.9 73.0 16.4 1.0000 8.1 574.1 74.6 16.5 1.0000 7.5 574.3 77.7 16.9 1.0000 6.3 574.1 70.7 17.1 1.0000	7.5 573.8 71.5 16.4 1.0000 8.1 573.9 73.0 16.4 1.0000 8.1 574.1 76.5 16.5 1.0000 7.5 574.3 77.7 16.9 1.0000 6.3 574.1 70.7 17.1 1.0000 6.4 574.0 60.9 17.6 1.0000
8.5 573.9 73.0 16.4 1.0000 8.1 574.1 74.6 16.5 1.0000 7.5 574.3 76.2 16.9 1.0000 7.2 574.3 77.7 16.9 1.0000 7.3 574.1 70.7 17.1 1.0000	8.5 573.9 73.0 16.4 1.0000 8.1 574.1 74.6 16.5 1.0000 7.5 574.3 77.7 16.9 1.0000 7.7 574.1 70.7 17.1 1.0000 7.4 574.0 60.8 17.4 1.0000 7.1 573.9 82.2 17.6 1.0000
8.1 574.1 74.6 16.5 1.0000 7.5 574.3 76.2 16.6 1.0000 7.2 574.3 77.7 16.9 1.0000 7.3 574.1 70.3 17.1 1.0000	8.1 574.1 74.6 16.5 1.0000 7.5 574.3 76.2 16.6 1.0000 7.2 574.3 77.7 16.9 1.0000 7.4 574.1 70.7 17.1 1.0000 7.4 574.0 60.9 17.6 1.0000
7.6 574.5 76.2 16.6 1.00002 7.2 574.3 77.7 16.9 1.00001 7.3 574.1 70.* 17.1 1.00001 7.4 574.0 c0.9 17.4 1.00031	7.5 574.3 76.2 16.6 1.00002 7.2 574.3 77.7 16.9 1.00001 6.3 574.1 70.7 17.1 1.00001 6.4 574.0 60.9 17.4 1.00001 6.1 573.9 82.2 17.6 1.00001
7.3 574.1 70.3 17.1 1.000.01	7.3 574.1 70.7 17.1 1.000.00 7.4 574.0 60.9 17.4 1.000.00 7.1 573.9 82.2 17.6 1.000.00
5.4.0 co.9 17.4 1.000J	4.4 574.0 c 0.8 17.4 1.000.01
	5.1 573.9 82.2 17.6 1.00001

IC COORDINATES *4004" LAT DEG *37753 LON DEG	INDEX Of Refraction	553	555		1.000014 1.000014	5.5	5 = 3	.00001	0000	0000	20	1000	10000	1000	10000	1000	0000	0000	331	10000	1.000015	0000	00001	1.000016	0001	33001	1.000016
GEODETIC 32.4 136.3	ATA SPEFD KNOTS	18.2	2 6 6	10.0	000	20.2	5 C (20°5	ن		20.3	· ·	•		•	20.5	• • • •	ċ	ξυ • 3	•		٠.	c		ċ	· .	21.0
	WIND DA DIRECTION DEGREES(TV)	86.3	x & &	\$ 5 5 ° 5 ° 5 ° 5 ° 5 ° 5 ° 5 ° 5 ° 5 °	- v · c · c · c · c · c · c · c · c · c ·	7 0 7 0 7 0 7 0 7 0	200	• •			95.9		94.3	\$ \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\		90.0		30.5	0.00	×	0 % 0 %	•	35.1	Š	34.5		32.1
0	SPEED OF SOUND FNOTS	573	573 573 573	572.9	572 572 572	572	. – ,	- ~	\sim	572.5	~ ~	n m		~ ~ 1	574.		574	574.	575	, , , , , , , , , , , , , , , , , , ,		575	•	Š	•	σ.	575.9
UPPER AIR DAIA 1967,3737 WHITE SANDS	DENJITY GM/CUJIC MFTER	- · ·	2 n 2	ນ ໝ ່ ະ ຄາ ເ ່ ຍ ຄາ	. n . n . n . n . n . n	51.7	# CO →	で・ つか	Ċ.		2 2	~	~	~ <	∢.	75.6	٠.	74.3	- 1	٠.,	- c	. ~	5.6	•	-	5 · · · · ·	7) • 1
a d	AEL •HU¶• PEKCENI																										
.y•°0 FEET ™SL OB23 LIDT	TEMPERATURE AIM DELPOINT DE GREES CENTIGRADE	99	0.000 000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.	5 6	-57.2	52		-57.5	57	ر د ۲	-56.)	2,5	\$5	ر د ده	56	-55°9	33	55	25	? :		2-73-	•	3.	2,4	•	134.0 -55.6
FITUEE 37 NO. 337	FRESSURE MILLIBARS (÷ •		7 0 M			• •	7 · 5 2	•	7 . 6 7	•		•		~			•	7.95		0 0	Š	Š	•	;	•	1.4.1
514110N AL 5 JULY 85 ASCENSION	GLOMETRIC ALTITJOE MSL FEET	6.7930.0	66133.3 66233.3 66330.0	68433.3 62500.0	64700.0 64700.0	6.900.0	69100.0	0.00250	0.400.6	64500.0 54600.0	6,0070,0	0.00659	70000	70200.0	763330	70400.0	71.600.0	70,740.0	7,833.0	0.0000	71130.6	71200.0	71766.0	71430.5	71500.0	71636.0	71936.0

WHITE SAND	TOL	0823	JULY 83 0823 107	JULY 83
18600035	FEET *5L	3985.00	ALTITUDE	A 1 10 P
2 X Y Y 1440				

TABLE 10 CONT 196.1733 LON 196	ALTITUBE 39	134 L334 OJ 62	ā	DEPTH AIR DAIL	V A A		6 E O D E 7 I C	CLORDINATE
TABLE 10 CON! T	, ,	0823 1DT	•	INTIF SAN	S O		32	UD47 LAT DE
TEMPERATURE RELAMINA DEFINITY SPEED OF DIRECTION SPEED OF DIRECT	w*		TAE	10	I.N		ŝ	155 LON DE
	5 S J K	TEMPE	EL.HUM. ERCENT	E #5117 M70 UB 1	Pf E D S UUND	WIND D	PEF	INDEX OF
2.5.7 57.7.1 61.6 21.7 10000 2.5.7 55.7 57.7.2 79.5 21.2 10000 2.5.7 55.7 77.7.2 79.5 21.2 10000 2.5.7 55.7 77.7.2 79.5 21.2 10000 2.5.7 55.7 77.7.2 79.5 21.2 10000 2.5.7 55.7 77.7 79.7 21.1 10000 2.5.7 55.7 77.7 79.7 21.1 10000 2.5.7 55.7 77.7	I to A R	DE CHEES (игігк	CN	EGREESCTV	KNOTS	FFRACTIO
1.2 1.2 1.2 1.0000 1.2 1.2 1.2 1.0000 1.3 1.2 1.2 1.0000 1.3 1.2 1.2 1.0000 1.3 1.3 1.2 1.0000 1.3 1.3 1.2 1.0000 1.3 1.3 1.2 1.0000 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3	~)	~			577	-	41.1	10000.
5.5. -55.77 77.72 77.95 21.2 1,00001 5.1. -53.6 -6.73 577.2 70.1 21.1 1,00001 5.1. -53.6 -6.74 577.3 70.1 21.1 1,00001 5.1. -53.6 -6.74 577.4 78.7 20.7 1,00001 5.1. -53.5 -6.74 577.4 78.7 20.7 1,00001 5.1. -53.5 -6.74 577.4 78.7 20.7 1,00001 5.1. -53.5 -6.74 577.4 77.7 77.7 1,00001 1.1. -53.5 -6.74 577.4 77.7 20.5 1,00001 1.1. -53.4 -6.75 577.5 77.7 20.5 1,00001 1.1. -53.4 -6.75 577.5 77.7 77.7 1,00001 1.1. -53.4 -6.75 577.5 77.7 1,00001 1,00001 1.1. -6.75 577.6 77.7		5		_	577	ċ	21.2	.0000.
1.2 1.5	٠,	55		-	577.	J.	21.3	.0000
5.11 53.6 6.0.3 577.2 79.3 21.1 130000 5.22 53.5 6.0.4 577.3 78.7 20.9 100000 5.23 6.53 6.7.4 577.4 78.7 20.9 100000 5.23 6.53 6.7.4 577.4 78.7 20.9 100000 1.23 6.53 6.7.4 577.4 78.7 20.6 100000 1.4 6.53 577.4 77.7 77.7 20.6 100000 1.4 6.53 577.4 77.7 77.7 70000 100000 1.4 6.7 577.4 77.7 70.6 100000 100000 1.4 6.7 577.5 77.7 70.6 100000 100000 1.5 6.7 577.6 77.7 77.8 100000 100000 1.5 6.7 577.6 77.7 77.8 100000 100000 1.6 6.7 577.9 77.8	~ 1	2		_	:77.	Ç	21.2	.0000
2.3 6.7 57.3 7.9 1.00001 2.4 57.4 57.4 57.4 50.7 1.00001 2.5 55.5 6.7 57.4 78.7 20.8 1.00001 1.5 55.5 6.7 57.4 77.7 78.7 20.8 1.00001 1.4 55.5 6.6 57.4 77.7 20.6 1.00001 1.5 55.5 77.4 77.7 77.7 20.6 1.00001 1.5 55.5 77.7 77.7 20.6 1.00001 1.1 55.4 6.7 77.7 77.7 20.6 1.00001 1.1 55.4 6.7 77.7 77.7 20.6 1.00001 1.1 55.4 57.7 77.7 77.7 1.00001 1.1 57.5 57.7 77.7 77.8 1.00001 1.1 57.7 57.7 77.8 1.00001 1.00001 1.1 57.7 57.8	٠.	53.		_	577.	0	21.1	.0000.
2.7.7 577.3 78.2 20.9 100001 2.7.7 577.4 78.2 20.7 100001 2.7.7 577.4 78.7 20.7 100001 1.7 55.5 6.7 100001 100001 1.7 53.4 77.7 20.2 100001 1.1 53.4 77.7 20.2 100001 1.1 53.4 77.7 20.2 100001 1.1 53.4 6.6 577.6 77.7 20.2 100001 1.1 53.4 6.6 577.6 77.7 100001 100001 1.1 53.4 6.6 577.6 77.7 100001 100001 1.2 53.5 577.6 77.7 100001 100001 1.2 53.5 577.6 77.7 100001 100001 1.2 577.6 77.7 100001 100001 1.2 57.2 577.6 77.7 100001 1.2	,	53		_	577.	·	21.0	.0000.
6.5 53.5 6.7.4 577.3 78.7 20.7 100001 1.5 53.5 6.7.4 577.4 78.5 20.7 100001 1.5 53.5 6.7.4 577.4 78.7 20.5 100001 1.5 53.5 6.7.4 577.5 77.7 20.2 100001 1.5 53.4 6.7.5 577.5 77.7 20.0 100001 1.5 53.4 6.7.5 577.5 77.7 20.0 100001 1.5 53.5 6.7.5 577.5 77.7 20.0 100001 1.5 53.5 77.5 77.7 10.0 100001 1.5 53.5 77.5 77.7 10.0 100001 1.5 53.5 77.5 77.7 10.0 100001 1.5 53.5 77.7 77.7 10.0 100001 1.5 53.7 77.7 77.7 10.0 100001 1.5 53.7		2		_	577.	ď	50.3	.0000
1.0000		53		-	577.	œ	K-0.3	.0000.
2.1 -53.5 -6.7 577.4 77.7 20.5 1,000001 1.5 -53.5 -6.1 577.4 77.7 20.5 1,000001 1.5 -53.5 -6.1 577.5 77.7 20.2 1,000001 1.1 -53.4 -6.5 577.5 77.7 20.0 1,000001 1.3 -53.4 -6.5 577.5 77.7 20.0 1,000001 1.3 -6.5 577.5 77.7 20.0 1,000001 1.4 -6.5 577.5 77.7 10.0 1,00001 1.5 -6.7 577.5 77.7 10.0 1,00001 1.5 -6.7 577.6 77.8 1,00001 1,00001 1.5 -7.7 577.7 78.5 1,00001 1,00001 1.5 -7.7 577.8 77.4 1,00001 1,00001 1.6 -7.7 577.8 70.4 1,00001 1,00001 1.6 -7.7 <td< td=""><td>٠</td><td>ς.</td><td></td><td>•</td><td>577.</td><td>78.5</td><td>20.2</td><td>.0000.</td></td<>	٠	ς.		•	577.	78.5	20.2	.0000.
1. -53.5 -50.5 -50.4 -57.4 -77.2 -50.5 -50000000000000000000000000000000000	r.	ς.			577.	1.51	20.6	.0000
1.5 -55.5 1.6 -55.4 1.7 -55.4 1.8 -55.4 1.9 -55.4 1.1 -55.4 1.1 -55.4 1.2 -55.4 1.3 -55.4 1.3 -55.4 1.4 -55.4 1.5 -55.4	÷	3			577	78.1	20.5	.0000
1.5 -53.4 1.6 -53.4 1.7 -53.4 1.8 -577.5 1.7 - 50.1 1.9 -53.4 1.0 -53.4	;	2		•	577	6.77	7°02	.0000
1.5 -53.4 -53.4 -53.4 -53.4 -53.5	:	~		•	577	7.77	20.2	.00001
1.1 -53.4		53.		_	577	17.5	20.1	.0000
0.59 -53.4 77.5 77.7 17.9 1.03001 0.53 -53.3 -64.5 577.6 77.8 19.6 1.03001 0.53 -53.3 -64.5 577.6 77.8 19.6 1.00001 0.51 -53.3 -67.5 577.7 78.5 18.5 1.00001 0.0 -53.2 -67.7 577.7 78.5 17.4 1.00001 9.6 -53.2 -77.8 77.7 1.00001 1.00001 9.6 -53.2 -77.8 77.7 1.00001 1.00001 9.6 -53.2 -77.8 77.8 1.00001 1.00001 9.7 -53.2 -77.8 77.4 1.00001 1.00001 9.6 -53.2 -77.8 77.4 1.00001 1.00001 9.7 -53.2 -77.8 77.4 1.00001 1.00001 9.9 -53.1 17.4 15.6 1.00001 9.1 -53.1 17.4 15.0 1.00001 9.2 -53.1 57.9 27.4 15.0	:	53		-	577	77.1	20.0	0000
0.55.3 0.45.5 577.6 77.8 17.6 17.9 1.00001 0.53.3 0.45.5 577.6 77.8 18.5 1.00001 0.53.2 0.75.6 77.7 78.9 18.5 1.00001 7.0 -53.2 0.77.7 78.7 18.5 1.00001 7.0 -53.2 0.77.7 77.8 1.00001 9.6 -53.2 0.77.8 78.7 1.00001 9.6 -53.2 0.77.8 78.7 1.00001 9.6 -53.2 0.77.8 79.1 1.00001 9.7 -53.2 0.78.8 79.4 17.6 1.00001 9.0 -53.1 0.78.8 70.4 15.0 1.00001 8.9 -53.1 0.78.8 70.4 15.6 1.00001 8.0 -53.1 0.78.8 70.4 15.6 1.00001 8.1 -53.0 0.78.8 70.6 15.7 1.00001 8.1 -53.0 0.78.8 70.6 15.0 1.00001 8.2 -53.0 0.00001 <td>ċ</td> <td>P) (</td> <td></td> <td></td> <td>577</td> <td>77.1</td> <td>12.0</td> <td>22001</td>	ċ	P) (577	77.1	12.0	22001
0.5.5 57.7 77.8 19.6 10.0001 0.5.3 53.2 63.9 577.7 78.0 18.8 10.0001 7.0 53.2 67.7 78.0 18.7 10.0001 9.6 53.2 67.7 78.7 17.7 10.0001 9.6 53.2 67.8 577.8 17.7 10.0001 9.6 53.2 67.8 577.8 17.0 10.0001 9.7 53.2 67.8 577.8 17.0 10.0001 9.0 53.1 67.8 577.8 17.0 10.0001 9.0 53.1 67.8 577.8 10.0 10.0001 8.0 57.8 10.2 10.0 10.0 10.0 10.0 10.0 8.0 57.8 10.2 10.0 <td< td=""><td><u>.</u></td><td>ς:</td><td></td><td></td><td>577.</td><td>77.5</td><td>30.0</td><td>50001</td></td<>	<u>.</u>	ς:			577.	77.5	30.0	50001
6.1 52.5 63.5 63.5 77.7 78.5 17.0 100000 6.0 -53.2 67.7 77.7 78.5 17.7 100000 7.0 -53.2 67.7 77.8 78.5 17.7 100000 9.6 -53.2 67.8 78.8 17.7 100000 9.6 -53.2 67.8 78.8 17.0 100000 9.6 -53.2 67.8 78.8 17.0 100000 9.7 -53.1 78.8 78.4 15.6 100000 9.7 -63.1 57.8 78.9 16.5 100000 9.7 -63.1 57.9 80.1 15.0 100000 9.7 -63.1 57.9 80.2 100000 9.7 -63.1 15.7 100000 8.1 -53.1 15.2 100000 8.1 -53.0 16.2 10000 8.1 -53.0 16.8 16.9 10000 8.2 -53.0 57.9 16.8 10000 8.2<	.			\			7	
53.2 53.2 57.7 78.5 17.7 100000 53.2 53.2 57.7 78.8 17.4 100001 9.6 53.2 67.8 78.8 17.4 100001 9.6 53.2 78.8 17.0 100001 9.6 53.1 67.8 77.8 100001 9.0 53.1 67.8 77.8 100001 8.0 53.1 67.8 77.8 100001 8.1 53.1 67.8 77.9 80.1 15.0 100001 8.3 53.1 67.8 577.9 80.2 15.0 100001 8.3 53.1 67.8 577.9 80.2 15.0 100001 8.3 573.0 78.9 15.2 100001 8.3 573.0 77.6 15.0 100001 8.4 573.0 77.6 15.0 100001 8.4 574.0 578.1 77.6 14.8 100001 8.4 574.0 578.1 77.6 14.8 100001	• •			> · · ·	577			10000
53.2 57.7 57.7 78.5 17.7 1.00001 53.2 53.2 67.8 78.8 17.4 1.00001 9.6 53.2 67.8 79.1 17.0 1.00001 9.0 53.2 67.8 79.1 17.0 1.00001 9.0 53.1 67.8 57.8 79.7 16.0 1.00001 8.9 53.1 61.8 57.8 79.7 16.0 1.00001 8.9 53.1 61.2 577.9 60.7 15.2 1.00001 8.3 53.1 61.2 577.9 60.7 15.6 1.00001 8.3 53.1 61.2 577.9 60.7 15.6 1.00001 8.3 53.1 61.2 578.0 77.6 15.7 1.00001 8.0 57.0 578.0 76.2 15.0 1.00001 8.0 57.0 76.2 15.0 1.00001 8.0 57.0 57.9 76.4 16.0 8.0 57.0 57.0 77.6 16.0	٠.	, ,		5 M	577	2 0	, c	1,000
9.6 -53.2 9.6 -53.2 9.7 57.8 79.1 17.0 1.00001 9.1 577.8 77.8 79.1 17.0 1.00001 8.1 55.1 16.2 1.00001 8.2 -53.1 16.2 1.00001 8.3 -53.1 16.2 1.00001 8.3 -53.1 16.2 1.00001 8.3 -53.1 16.2 1.00001 8.4 15.0 1.00001 8.7 -53.0 8.0 77.9 80.2 15.7 1.00001 8.8 -53.0 77.9 80.0 77.6 15.1 1.00001 7.8 -53.0 77.8 16.9 1.00001 7.8 -53.0 77.8 16.9 1.00001 7.8 -53.0 77.8 16.9 1.00001 7.8 -52.9 77.8 16.8 1.00001 7.9 -52.9 77.8 16.8 1.00001 7.1 -52.9 77.8 16.8 1.00001 7.2 -52.9 77.8 16.8 1.00001	,	2.5		• •	577	78.5	17.7	0000
9.4 -53.2 67.4 577.8 79.4 17.0 1.00001 9.2 -53.2 62.1 577.8 79.4 16.6 1.00001 9.0 -53.1 61.5 577.9 80.1 15.6 1.00001 8.9 -53.1 61.2 577.9 80.1 15.6 1.00001 8.3 -53.1 67.2 577.9 80.2 1.00001 8.3 -53.1 67.2 577.9 80.2 1.00001 8.3 -53.1 67.2 577.9 80.2 1.00001 8.3 -53.1 67.2 578.0 77.6 15.7 1.00001 8.0 -53.0 76.2 15.7 1.00001 1.00001 7.4 -53.0 76.2 15.0 1.00001 7.4 -53.0 578.1 72.1 14.8 1.00001 7.4 -52.9 578.1 72.1 14.8 1.00001 7.1 -52.9 578.2 578.2 67.6 14.7 1.00001 8.2 57.2 578.2	Ċ	53.			577.	70.8	17.4	.00001
9.2 -53.2 9.4 -53.2 9.0 -53.1 8.0 -53.1 8.9 -53.1 8.7 -6.1 8.7 -6.1 8.7 -6.1 8.7 -6.1 8.7 -6.1 8.7 -6.2 1.00001 -6.1 8.7 -6.2 8.8 -6.2 8.9 15.6 1.00001 -6.2 8.9 15.7 1.00001 -6.2 8.1 -53.0 8.2 -53.0 8.3 -6.2 8.4 -53.0 8.5 -6.2 8.6 -6.2 8.7 -6.2 8.7 -6.2 8.2 -6.2 8.2 -6.2 8.2 -6.2 8.2 -6.2 9.2 14.9 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 <td>Ċ.</td> <td>53.</td> <td></td> <td>7.0</td> <td>577.</td> <td>79.1</td> <td>17.0</td> <td>.00001</td>	Ċ.	53.		7.0	577.	79.1	17.0	.00001
2.0 -53.1 8.9 -53.1 8.9 -53.1 6.1.5 577.9 8.7 -57.1 8.5 -53.1 6.3 -53.1 6.3 -53.1 6.3 -53.1 6.3 -53.1 6.4 -53.0 7.6 -53.0 7.6 -53.0 7.6 -53.0 7.6 -53.0 7.6 -53.0 7.6 -53.0 7.6 -53.0 7.6 -53.0 7.6 -53.0 7.7 -52.0 7.6 -52.0 7.7 -52.0 8.9 -52.0 8.9 -52.0 8.9 -52.0 8.9 -52.0 8.9 -52.0 8.9 -52.0 8.9 -52.0 8.9 -52.0 8.9 -52.0 8.9 -52.0 8.9 -52.0 8.9 -52.0 8.9 -52.0 8.9 -52.0 8.9 -52.0 8.9 -52.0 8.9 -52.0	٠,	53.		62.1	577.	7.01	16.6	.0000
8.9 -53.1	∹.	53.		6.1.9	577	70.7	16.3	.0000
53.1 61.2 577.9 56.4 15.6 1000001 3.5 -53.1 60.7 577.9 50.7 15.7 1000001 5.1 -53.0 78.0 77.6 15.7 1000001 5.1 -53.0 578.0 77.6 15.1 1,000001 7.4 -53.0 50.7 578.0 76.2 15.0 1,00001 7.4 -53.0 50.5 578.0 76.2 15.0 1,00001 7.4 -52.9 50.5 578.1 75.6 14.9 1,00001 7.4 -52.9 57.8 57.8 14.7 1,00001 7.1 -52.9 57.8 57.8 14.7 1,00001 8.7 52.9 57.8 57.8 14.7 1,00001 8.7 52.9 57.8 57.8 14.6 1,00001 8.7 57.8 57.8 57.8 14.6 1,00001 8.2 57.8 57.8 55.0 14.6 1,00001 8.2 57.8 57.8 55.0 14.6 1,00001 8.2 57.8 57.8 55.0 14.6 1,00001 9.0 57.8 57.8 57.8	ж •	53.		61.5	577	8 n. 1	15.0	0000
3.5 -53.1 5.3 -53.1 5.1 -53.0 5.1 -53.0 5.1 -53.0 5.1 -53.0 5.1 -53.0 5.2 578.0 77.6 15.1 1.00001 5.2 578.0 76.2 15.0 1.00001 5.2 578.1 74.4 14.9 1.00001 5.4 578.1 72.1 14.8 1.00001 5.4 578.1 70.6 14.7 1.00001 5.4 578.2 6.7 14.8 1.00001 5.4 578.2 6.7 14.8 1.00001 5.4 578.2 6.7 14.8 1.00001 5.4 578.2 6.7 14.8 1.00001 6.7 57.8 1.00001 6.7 57.8 1.00001	о (13)	٠ س		(1.2	577	ر ا ا	15.6	.0000
6.3 -53.1 57.6 15.2 1.00001 5.1 -53.0 77.6 15.1 1.00001 7.4 -53.0 77.6 15.1 1.00001 7.4 -53.0 74.9 1.00001 7.4 -52.9 578.1 72.1 14.8 1.00001 7.1 -52.9 57.8 57.8 14.7 1.00001 8.9 -52.9 57.8 14.7 1.00001 8.9 -52.9 57.8 14.7 1.00001 8.9 -52.9 57.8 14.7 1.00001 8.9 -52.9 57.8 14.7 1.00001 8.9 -52.9 57.8 14.7 1.00001 8.9 -52.9 57.8 14.6 1.00001 8.9 -52.9 14.6 1.00001 8.9 -52.8 14.6 1.00001 8.9 -52.8 14.6 1.00001 8.0 -52.8 14.6 1.00001 8.0 -52.8 14.6 1.00001 8.0 -52.8 14.6 1.00001 9.7 57.8 57.8 14.6 1.00001 9.0 -52.8 14.6 1.00001	÷	S		ເ •ບາ	577	50°	15.	.00001
53.0 57.6 15.1 1.00001 6.0 57.6 15.0 1.00001 7.8 -53.0 76.2 15.0 1.00001 7.6 -53.0 57.9 73.7 14.8 1.00001 7.4 -52.9 57.8 72.1 14.8 1.00001 7.7 -52.9 57.8 14.7 1.00001 8.9 -52.9 57.8 14.7 1.00001 8.9 -52.9 57.8 14.7 1.00001 8.7 -52.9 57.8 14.6 1.00001 8.7 -52.9 57.8 14.6 1.00001 8.7 57.8 57.8 14.6 1.00001 8.7 57.8 57.8 14.6 1.00001 8.7 57.8 57.8 14.6 1.00001 8.7 57.8 57.8 14.6 1.00001 8.7 57.8 57.8 14.6 1.00001 8.7 57.8 57.8 14.6 1.00001 8.7 57.8 57.8 14.6 1.00001 9.7 57.8 57.8 14.6 1.00001 9.7 57.8 57.8 14.6 1.00001	ಎ	₩.		50.5	578	78.9	15.2	0001
6.0 -53.0 76.2 15.0 1.00001 7.8 -53.0 57.9 74.9 16.9 1.00001 7.6 -52.9 578.1 73.7 14.8 1.00001 7.1 -52.9 578.2 578.1 77.6 14.7 1.00001 7.1 -52.9 57.2 578.2 69.2 14.7 1.00001 6.7 -52.9 57.6 578.2 69.2 14.7 1.00001 6.7 -52.9 57.8 578.2 67.8 14.7 1.00001 6.7 -52.9 57.8 578.2 66.4 14.6 1.00001 6.7 -52.8 57.8 57.8 14.7 1.00001 6.7 -52.8 57.8 57.8 14.6 1.00001 6.7 -52.8 57.8 57.8 14.6 1.00001 6.0 -52.8 57.8 57.8 57.8 14.6 1.00001)	r		5° • 1	578	77.6	15.1	000
7.8 -53.0	ن ند	ш,		67.1	573	7.97	15.0	0001
7.c -53.u 59.5 578.1 73.5 14.6 1.00001 7.4 -52.9 52.2 578.1 72.1 14.8 1.00001 7.4 -52.9 52.2 578.1 70.6 14.7 1.00001 7.1 -52.9 52.0 578.2 69.2 14.7 1.00001 53.6 578.2 69.2 14.7 1.00001 53.6 578.2 67.8 14.7 1.00001 60.7 -52.9 52.1 578.2 66.4 14.6 1.00001 60.0 -52.8 55.0 14.6 1.00001	۲.	r		۵. د د	578	6.72	14.9	1000
7.4 -52.9 59.2 578.1 72.1 14.8 1.00031 72.4 -52.9 52.9 58.2 578.1 70.6 14.7 1.00031 70.6 14.7 1.00031 70.6 14.7 1.00031 70.9 -52.9 52.9 52.1 578.2 05.8 14.7 1.00001 59.2 14.7 1.00001 00.9 -52.9 52.1 578.2 06.4 14.6 1.03331 00.0 -52.8 55.0 14.6 1.30001		5.3		5.02	578	73.5	14.5	.00001
7.4 -52.9 58.2 578.1 70.6 14.7 1.00001 7.1 -52.9 54.6 578.2 69.2 14.7 1.00001 59.6 578.2 67.8 14.7 1.00001 59.7 -52.9 52.1 578.2 66.4 14.6 1.00001 60.7 -52.9 52.1 578.2 66.4 14.6 1.00001 60.6 -52.8 55.8	7.	۲.		5.05	578	72.1	14.8	.00001
7.1 -52.9 54.6 578.2 69.2 14.7 1.03031 54.6 578.2 67.8 14.7 1.03031 60.9 -52.9 6.7 52.9 52.1 578.2 66.4 14.6 1.33331 65.0 14.6 1.33031 65.0 14.6 1.33031	7	25		6.83	578	9.07	14.7	00001
6.7 -52.9 5.4 578.2 67.8 14.7 1.00001 6.7 -52.9 5.4 578.2 66.4 14.6 1.33331 6.c -52.8 5.2 14.6 1.30001	:	25		A	578	69.5	•	0001
6.7 -52.9 5°.1 578.2 66.4 14.6 1.33331 6.c -52.8 55.0 14.6 1.38001	ċ	٠ <u>.</u>		· · · · · · · · · · · · · · · · · · ·	578	07.8	•	1000
.c =52.8 14.6 1,30001	ċ	.5		5 - 1	5.875	9.30	•	1000
	•	52.		2.2	573.3	95.0		1000

ETIC CUORDINATES 32,4004° LAT DEC 06,37033 LON DEC	INDEX OF HEFRACTION	1.000013	1.000013 1.000013 1.000013 1.000012	1.000012 1.000012 1.000012 1.000012	1.000012 1.000012 1.000012 1.000012	1.000012 1.000012 1.000012 1.000012 1.000012	• • • • • • •	1.000011 1.000011 1.000011 1.000011 1.000011
6E00E11C 32.4 106.3	ATA SPEFD KNOTS	14.6 14.6 15.1	15.7 16.2 17.7	- 8 8 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	21.0 21.5 22.1 22.1	22.52 23.52 24.52 24.53	12 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
	WIND DA DIRECTION DEGREES(TV)	~ ~ ~	6 4 8 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	20000 20000	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	800 000 000 000 000 000 000 000 000 000	776.77	**************************************
ATA 57 55 55 55	SPEED OF SUUND KHOTS	00 or 00	578 578 578 578 578 578 578 578 578	00000000000000000000000000000000000000	578.7 578.7 578.7 578.7 578.7	മയയമെക	579.0 579.0 579.0 579.0 579.1	574 574 574 574 574 574 574 574 574 574
UPPER ATR DATA 1967020337 WHITE SANDS	DENSITY S GAZCUBIC BETFR	7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7	ら ら in らっぱっぱ in		4 4 m m m	20 20 20 20 20 20 20 20 20 20 20 20 20 2		4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4
a di	RFL.HUM. PFRCENT							
FET "SL)T	EMPERATURE DIMPOINT ES CENTICRADE							3 3 3 3 3 %
3°39.03 MDT 0823 MDT	TEM A1R DECRFES	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	D. O. P. D. D. C.	25.0	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1	1.25.25.25.25.25.25.25.25.25.25.25.25.25.
130 E	FRLSSJRE MILLIBARS	20 % 4 % % 5 % 3	* ** **	1 10 4 4 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	ראים לייה איני	יים איז		**
STATION ALTITS 5 JULY 83 ASCENSION NO.	GEOMETHIC ALTITUDE MSL FEET	75939.0 7e600.0 7c106.0	76200.0 76700.0 76500.0 76500.0	767000 768000 768000 776000	77100.0 77203.0 77300.0 77300.0 77500.0	77500.0 77700.0 77800.0 77900.0 78000.0	7.50000 7.62000 7.64000 7.65000 7.66000 7.87000 7.870000	78500.0 78100.0 78100.0 78200.0 78500.0 78500.0 78500.0 78500.0

و ي ي

ETIC CUORDINATES 32.4J43 LAT DES U6.57333 LON DEG	INDER OF REFRACTION	1.000011	00001 00001 100001		1.00001	1.000010 1.000010 1.000010 1.000010	1.000010 1.000010 1.000016 1.000010		\$00000 \$000000 \$000000 \$0000000 \$000000
6F UDL 11C 32.4 1UA.3	ATA SPLFD RNOTS	27.0 27.9 28.0	oc or oc oc	29.00		000			22.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2
	WIND DA DIRECTION DEGREES(TN)	8 3 1 . 1 8 . 1 . 4 . 4 . 4 . 4 . 4 . 4 . 4 . 4 . 4	8.7.0 8.7.0 8.7.0 9.7.0	8 8 8 8 7 7 8 7 8 7 8 7 8 7 8 7 8 7 8 7	8 8 8 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	© © © © © © © © © © © © © © © © © © ©	0 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2		, vala o C = v k v v v v v d d d d v v v v v v v d d d d
υΑΤΑ :3.7 :0.5 :N*T	SPEED OF Sound Krots	579.4 579.5 579.5	5.4.5 5.9.6 5.9.5 5.9.5	579.7		579.9 580.0 580.0 580.1	580 580 580 580 580 590 590 590		2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
UPPFR AIR DATE TO	DEMSITY GMZCUBIC METER	4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	4456	16 K OK V	4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	444444		2 44 4 7 7 7 7 9 9 9 9 9 9 9 9 9 9 9 9 9
TAB	KEL•HUM• PF k CE N I								
1919.00 FFLT #SL 0323 ADT	TEMPERATURE AIR DEMPOTAT DEGRES CENTICAADE	2 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	ယာဆယ္သ • • • • ဟုတ္ () () () () () () () () () () () () () (:222:	 	\$ 6 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1
TITULE 793 80- 337	FRESSURE MILLIBARS	20.	~~~	12 (w ())	יטר מע ביר ו	28.5 28.5 2.6 3.6 5.6 5.6 5.6 5.6 5.6 5.6 5.6 5.6 5.6 5	6.27. 6.27.	• ၁ • • • • •	
STATION AL 5 JULY E3 85 CEMSION	GEOMFTAIC ALTITUDE MSL FEET	c o u c c o u c c 1 u c	C 200 C 200 C 200 C 200 C 200	C + C C C C C C C C C C C C C C C C C C	1000	1 700 1 400 1 500 1 600 1 700	1500 1900 2100 2100 2500 300		8 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0

STATION ALS JULY 85	17ubt	36.59.70 FEET #51 0823 NOT		UPPER ATH DATE 1905 1 1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	A L. O.		okubetic 32.4	CUORDINAT
	140.		Ę	TABLE 10 CON'T	T.N		• 3 6 1	LON OL
GLOME TRICAL TRICAL	FRESSURE	TEMPERATURE	HEL.HUM.	PERSITY GM C DA 10	SPEED OF	AUNINO DA	ATA	INDEX
	MILLIBAKS	11 1 LR A		MTTER	KNOTS	DEGREES(TV)	KNOTS	HEFRACTION
0000	-5	1.67-		33.0		•	~	1.000000
00J*	Š	-64°J		o. ∞. *`		-	33.4	
100	•	6.64-		34.4		•	~	0000
0027	7.9.7	S . 87 .		4° 0			33.7	0000
	• •	0 m m m m m m m m m m m m m m m m m m m		V C 4 4 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7		;	•	
4533	;	2					1 4	1.33347
4630	-7	-48		3.5			4	1.000003
4700	7.4.	•		2.74		~	,	ccacc
45.00	•	7.83-		V • V		_	•	רנפננ
	3 .	- 40.1		57.1		\$;	Crucc
	, ,)				; .	; .	.0000
1000		147.7) • O C		4	4 -	
300	. ~1	9-29-) **		• •	• •	
5430		-47.5		36.2		•	. ~	20000
5500	÷	-47.4		(A か)	585	34.7	~	.00000
2600	÷.	-67.5		5.5	545	0.78	~	•
27.00	M .	7.29			585.6	C 0	35.1	1.000003
0000	9.00	-47.(1		# P.	2000	7. % * P 80 00	~ ~	•
2003	1 ~4	5.071		. 55	586.0	3 m	Š	1.000003
100ء	\sim	-46.3		6.28	5.96.5	83.4	· ~	1.00000
1027	\sim	-46.7		34.7	545.3	83.2	Š	• n000ůn
(C)	~4 '	-40.6		34.5	536.4	0 4 0 1	35.5	ccocc
	u - \	1 · 0 · 1 · 1 · 1 · 1 · 1 · 1 · 1 · 1 ·		34.46	0 • 9 8 5	× × ×	rv	ניטטני
2632	. ~	-40.5		5.45	286.99	7 2 0	• •	
ი 200	\sim	-46.1		53.0	587.0	6.40	S	.0000
0.000	·	-46.3		37.7	587.1	-3	~	cnucc
555	-	53		3.4.5	587.3	v.	S	ccccc
7:00		2.5		53.4	587.4	~ · · · · · · · · · · · · · · · · · · ·	35.2	00000
יייי פייירע		- 45 · 6		2.5	557.5	c١	v	רנטננ
7400		7 T T T T T T T T T T T T T T T T T T T		. a	7 6 6 6		~ ~	2000CG .
87430.0	71.4	-45.4		5	583.	. ac	35.0	3333
75 J.J	~	∽		33.5	588.1	68.7	•	00000
0072		45		37.4	588.3	¥° ∪8	-3	1.000007
7700	- ,	٠.		₹ 05	7.88.7	87.0	36.8	นอบจอ
7800	_	١ ٩ ٩ ٠			588.5		34.9	1.000007

UPPER AIR DATA

EODE TIC COORDINATES 32.43343 LAT DES 106.37033 LON DEG		IRDEK	REFRACTION	1.030007	00	.00	00000	• 00	٦,	1.000007	٠,	1.000001	1.00000	71 0000°	/	1.00001					•	٠,	1.000000	1.030006	C,	_	1.00000	1.000016	0000	1.000005			רנכנ	400000	נננננ	cocc	1,00000	3333	0000C	1.000330	1.000006
6EONE 11 32• 106•	•	ATA	KNOTS	•	34.7	4	7	. ,	4	35.0	•	٠,		~ "	^ ~		· •0	36.1	•	9	36.5	36.7	36.b	36.7	36.6	36.5	36.4	5.5	36.2	56.1	000	· · ·	C 4	15.7		5.5	35.4	35.3	35.2	5.00	35.0
		WIND 0	5 32 - m	÷	91.4	65.0	ċ	.	۳,	V. 70		2 · ·	ċ.		• •	C C C	۲. d.b.	2.66	6.54	100.7	100.7	101.2	101.4	101.0	1.02.2	1,00.4	102.7	103.0	105.	10. 20.		****	116.7	0.511	1000	1,5,5	105.8	136.1	•	104.7	•
· ~ ~	J. P	PEED OF	KNOTS	£.	588.3	564.9	589.1	2.685	589.4	589.5	3.4.5	5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	> C	0.000	2002	5.00.0	330.0	590.0	503.3	590.0	5.93 • 0	0.063	290.0	0.003	590.0	0.00	590.0	500.0	• • •		• 2 3 8 0	> 0	1000	· =	593.1	Ŝ	3	5	3	596.1	1.005
19C USURSY WHITE SARUS	TABLE 10 CONTY	Da Maliy	,	51.3	31.7	11.5	21.4	11.2	31.1	40°	n .	\$ 25		 			\circ	4.62	•		ر. د.	C	C. 0 ○	ه. ا د ا	۲. با	च । ७ : १ :	ا کا دی	, , , , , , , , , , , , , , , , , , ,	٠. و س		•	,		7.7.	, , , r. , r.	C3 • 73		.,,,	6.00	r., , ,	6.13
	T.	KEL.HUM.	-																																						
19.00 FFET MSL 0823 MDT		TEMPERATURE	DEGREES CENTIGRADE	9.47-	1007-	-44.0	-44.5	7.77-	-44.5	177	- 64.	7 .	3.	0.01	٥ - ١ ١ - ١ ١ - ١	7	3	0.17-	43	-43.8	43	43	4 3	43	ζ,	5.3	7	, ,	~ ,	5 -	٦ ~	` ~	7 * * * * * * * * * * * * * * * * * * *	. 4		~	-43.7	2 3	-43.7	€3	-43.7
1786E 39 0• 337		PRESSURE	MILLIIAKS	6.00		5 U. 7	9•7?	÷	* · O ·	S . O		. T)) (1) (1) (1	k J(15.5	15.4	16.3	51 · 5 ·	13.6	15.1	⊃• 5-1	اد. م•د	n•3[10.7	100	ن د <u>۳</u>	1.0)	100	100	18.0	17.9	17.8	17.3	17.7	17.6	17.5
STATION ALT 5 JULY 93 ASCENSION N		GEOMETRIC		3.00678	0.00000	5 a 100 o	88290.0	85300°C	0.6(**5	0.0000 9.0000 9.0000	0.0000	1.0000			0.0000		8,700.0	0.76249	8.9536.3	R 1600.7	85730.0	37866	0°00543	0.00015	0.101.0	2000€	0.00 to c	0.00.716	3.0000		0.0000	0.000.0	01737.0	71100.0	912]0.0	91330.3	V1430.0	91533.3	91600°C	91730.0	21830.3

TATION AL 5 JULY 83 ASCENSION	TITUTE No. 33	3909.10 FELT MS1 0823 MDT	-	UPHER AIR DATA 14CO 20137 UNITE SAUDS	DATA 37 05 ONT		GEUDE TIC 32.4 136.3	ETIC CUORDINATES 32-4-0043 LAT RES 36-37353 LON DEG
CEOMETRIC Altitude Msl feft	PPESSURF MILLIJARS	TEMPERATURE A19 DEMPOINT GEGRES CENTIURADE	REL.HUM. PFRCENI	DESSITY GM/CUSIC HF IF R	SPEED OF Sound Knots	WIND DA DIRFCTION DEGREES(TN)	DATA SPEFU S KNOTS	INDEX OF REFRACTION
16.01	17.4	-43.7			590.1	107.4	5.75	1,000005
0007	•	-43.7		7. , 7	293	~	34.2	0
,130	7.	3		26.05	290	13 P. n	7	1.000015
200		7			065	10%	34. A	1.000000
017	17.1	7.63.7				. .	y ,	$\frac{1}{2}$
	. ~	-43.7			٦ ن ^		3.6.2) ~
2653	10.1	-43.7		22	5 5 0	ت د	•	1.0000
. 73¢	10.0	-45.1		5.	2	C.F.	34.0	1.333335
	٥,			٠,	ر ب	110.7	0 • 1 · M	1.333325
	•	~ ·		٠,	.	_ (8. E. S.	1.030075
	0 10	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \		•	Γ . υ	Ξ.	7	1.00000
3200		3 2		(1) (2) (4) (4) (4) (4) (4) (4) (4) (4) (4) (4		111.5	5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	3.000°L
1301	ċ	-43.7		7	2.5	= =	33.4	1,100000
3400	•	٤.		24.7		-	37.1	
5500	76.	ζ;		•	2.065		32.8	1.000005
000 2 .	٠.	-43.7		٠ و٠	590.2	•	32.5	00
		-43.7		3 . 7 .	2.065	110.4	37.0	1.000005
900	٠, •	-43.6		c 4 • 2	, ,,	<u> </u>	31.6	•
(0) y	٠,١	7		1.43		110.1	31.4	1.000005
24100.0	10° 10° 10° 10° 10° 10° 10° 10° 10° 10°	÷.		0 • 9 7	σ.	•	31.1	00
	• •	0.71			5.0.65	100.5		_ (
0075	·	£ 3.) · •	590.5) (.) E	1.00000
000	^	53		~	26	108.4	0.02	רכפככ
0.091	•	43.		7		عت	53.5	00000
	۸.	5,5		* • · · · · · · · · · · · · · · · · · ·		~ ·	29.3	00000
		60,			D (~ 1	20.1	נניננ
	o u	0.031		٠.	2.09.0	,	3, 4 0' 0	1.000015
5100	1	0 1 2 1		٠,	2.040	\$, a c	. מינו היימינו
5233	, ,	-45.6		e i		136.7	•	200000
00.70	٠,	•		7.7		10.) J	00000
507	•	4.5		٠, ٠,	543.	104.4		ccccc
		٠.		\sim ϵ	590	٠,	•	0000
	0	•		7. (230	٠,	٠	00000
0.00000	• •				2.000	10%.5	3 • 7 ?	1.000005
)	•		

PETIC CUONDINATES 32.4JJ4 LAT DEG 102.37733 LON DEC	INDEX OF REFRACTION	1.000003	1.000005	1.000005	1.000005		1.000035	1.000005	1,00003	1.333035	1.000005	1.00005	1.330335			1.330005	1.000005	1.000004	700000 F	1.000004	1.000004	1.000004	1.000004	1.000000	\$00000 • F	1,000604	1.100004	1.000004	.0000	1.333334	1.000004	0	0000	C	1.000004
66.006.11.0 32.4 106.3	ATA SPLED KNGTS	25.6	0	V: 4	25.8	\sim	2	25.5	25.5	•	v.	S-1	25.2	25.3		\$	25.5	25.5	~ "	25.7	25.P	~	5.5	2.5		. "	25.9	٠,	25.7	۶.	2	25.6	٠.	25.6	
	WINP DA DIRECTION DEGREES(TN)	101.1	000	C • 0 0	9.76	46.9	16.1	7 • 5 6 7 • 6	* * * * * * * * * * * * * * * * * * *	42.4	41.7	9.0¢	O C C	 	67.0	96.3	7.50	V • 70	C , , 3		80°9	ۍ د • ۲	C	x.x.	77.7	77.2	7.47	7.97	7. 2	75.1	7	7	•	•	\$. 2.
DATA 5.7 5.0 Su	SPEED OF Sound Knots	590.5	,	000	5.095	573.5		590.5	590.6	590.6	2.065	2.065	5.00.5	3 C C C C C C C C C C C C C C C C C C C	5.00.8	560.8	590.9	590.9		יעי ר	٠-	591	591		- 5	2010	5	~	193	591	591.3	591.	~	501.4	7.150
UFFER ALR DAT 1°COUNTS? WHITE SANDS TABLE LO CONFP	DE MSTIY GM/CUBIC MFTER	1.62	6.12	0.5)	21.5	4.1.		• •	.1.0	د• رء	a* t <	FL 4	ر د د د د		7.0.7	F . C ?	C* G!		17.9	17.9	1.00	19.6	S	7.01		12.1	15.1	1.0	٠-١	c -	K. 1	C	¥ 1	•
u TA	KEL•HUM• PEKCENT																																		
59,9,70 fftf mst O823 lDrP 7	TEMPERATURE AIR DEMPOINT DEGREES CENTIGRADE	2. \$ 4 1 1 1 2 2 3 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	-43.5	-43.5	47.4	-43.4	163.4	-45.4	-43.3	-43.3	-45.3	145.2	7.67-	7 - 6 3 - 6	-43.2	-43.1	-45.1	143.1	- 1 * 7 * 1 · 1 · 1 · 1 · 1 · 1 · 1 · 1 · 1 · 1	-43.0	-43.0	-43.6	-43.0	> 0 • 0 • 1	7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	0.14	6-77-	2.771	-42.0	23-	-42.3	1.77-	7	-42.7	1•79-
170FE	PRESSURF MILLISANS	•	7 . 4	,	; ;	14.2	_	F (2)		•	~	~) '	4.5.4	, ,,	~	•	.,	~ r	3 -	13.1	~	\sim	~ ↑ :	.1 0	\$ 0 J		-	7		7,		7,	12	12.3	
STATION ALT > JULY 83 ASCENSION N	GEOMETRIC ALTITUCE MSL 2ECT N	0.00000	95100.0	96200.0	96433.6	9 c : 00 • n	7,633,7	0.00403	2.930.0	07000.0	97100.0	9725.5	0.00176	0.00.76	976,00.0	0.00779	0.00.37.6	0.000.0	0.00000	9.200.0	J. 00 £ 20	J* UN7?6	98500•0	9,5601,0	3.6800.0	0.000.0	6.000%	2,100,4	94506.6	0° UC256	99430.3	0.70%	9,600.0	0.00246	754 UI-• U

GEODETIC COMPINATES \$2.40043 LAT DEG 106.37033 LON DEG 1.000004 1.000004 1.330004 1.000004 1.000004 1.000004 1.000004 1.000004 1.333034 1.333334 1.335004 1.000004 1.000004 *00000 1.000004 1.333334 1.000004 1.000004 1.000004 .000004 .00004 .330374 , nonor. .00000 *00000 •00000• *0000u* ,00000. .00000 RFFRACT ION INDEX 0 DIRECTION SPEED DEGNEES(TN) KNOTS WIND DATA PERCENT CAYCUOTO SOUND METERN AND AFTER KNOTS UPPER AIR DAIA TABLE 10 CON'T AHIIF SANDS 1,.1 USAPUINT DEGREES CENTIGRADE TEMPERATURE AIR DE DE DO DE STATION ALTITUDE 3939.PG FEET "SL 0823 HDT -42.5 -42.3 -42.2 6.77 42.3 42.1 -42.3 -42.3 4. 24 4. 24 4. 24 4. 24 -42.2 -42.2 -42.2 -42.1 42.1 1.54. 44.1 0 - 7 - 7 -MILLIDARS PRESSURF ASCENSION NO. 557 S JULY PS 99900.0 190009.0 190109.0 190209.0 100309.0 100400.0 101166.0 101205.0 171330.0 101403.0 101506.0 101630.0 101700.0 16,100.0 19,200.0 19,366.0 100.739.3 102501 1 102600.0 19.723.3 10.833.3 10,956.0 105000.0 10,0000 GEOMETRIC 10,000,61 61933.3 MSL FEET AL TITUDE

.000003

16.3

-42.0 -41.9 -41.9

0.57.

-41.7

103230.0 103300.0 155400.0 103500.0

103106.0

103700.0 10380^.0

03630 .0

-41.9 6.17

.00000c.1

.00000

0000u

•030304 *00000*

ł

GEODETIC COORDINATES 32.4004° LAT DEG 136.17333 LON DEG	INDEX OF REFRACTION	1.000003	1.00000	1.000003	1.000003	1.000003 5.00001	1.330333	1.000003	1.000033	1.000015	1.000003	1.00000	1.000003	1.300003	200000	1,00003	1.000003	1.000003	1.000003	1.000073	1.000003	1,000003	1.300303	1.00003
6£00£T; 32 136.	TA SPEFD KNOTS																							
	WIND DATA DIRECTION S DEGHFES(TN) K																							
DATA 57 58 50 50 51	SOUND KNOTS					592.6	5.05	592.4	592.3	592.5	592.2	592.1	592.0	592.0	591.9	591.0	501.7	591.7	591.6	591.6	591.5	591.4	591.4	591.3
UPPER AIR DAIN 1607-03-57 WHITE SAMES	PEYSITY GB/CUBIC MFIER	15.3	15.2	15.1	15.0	6°7'	14.9	14.7	14.7	14.4	14.5	14.4	14.4	14.3	C-71	14.1	14.1	14.0	14.0	1	17.9	11.3	15.7	1 4.7
ı.	REL.HUM. Percent																							
33.34.00 FELT MSL OB23 MM	TEMPERATURE AIR DEMPOINT DEGREES CENTIGAADE	-41.8	-61.7	141.7	-41.7	- 41 · 8	6-17-	-41.4	-42.0	-42.0	- 42.1	-42.2	-42.2	-42.2	-42.3	7077-	-42.4	-44.5	-42.5	-42.0	-42.0	7.52.7	-47	4.54-
Tubi:	PRESSURE MILLIUARS	10.2	10.1	10.0	10°C	ج د م م	γ. γ. γ.	۵. ک	رد) د م	1.1		9.6	۱٥ •	'^ ·	7 6			~\	7.5	ः <u>।</u> •	7.5	۲.	-	ب
STATION ALTITUDE 5 JULY 83 AJCENSION NO. 5	GLOMETRIC ALTITUDE MSL FEET	10,000.0 10,000.0	104100.0	104.00.0	10.400.0	13.500.0	10~700.0	10.800.0	104900.0	105100-0	105240.9	105200.0	105400.0	105500.0	10:730.0	105850.	10 5030.0	1 26020 • 9	100100.0	1002001	130300.0	100+00.0	.00:0	10c530.0

190602732 190602733

GF UDE TIC CUORDINATES 32-4C/143 LAT DEG 1J5-37033 LON DE G

: 1 1 1 1 1 1 1	KNOTS	£.	7.	4.	٥.	٠,	•	0•	٧.	~.	٠. ن	•3	*	-	٠.	9.	پ		,	·	۰,	~-	7.	٠.	·	~*	7.	7.	
¥ .	_																												
REL.HUM. PFRCENT		53.	56.	٠٢٠	. 22	30.	45.	79.	27.	. 77	50°	.61	21.																
RATUPE DEMPOINT	FWTIGRADE	12.6	ر• د	(-1-	7 - 4 -	۲۰۰	٠,٠	٠٠,	1.3	-62.1	6 • 7 C -	C*57+	7.7																
TEMPE	DEGREES C	22.7	19.)	18.5	15.1	9.3	٠,	-2.0	-5.3	-12.4	-17.3	-23.9	-37.5	-42.5	-54.5	-53.4	-55.4	-59.7	-67.9	-૯3•૯	-62.1	158.2	-57.7	-53.3	-51.9	-49.1	-43.8	-43.6	-41.7
	FLET	50 p*.	.816.	04540	1.563.	1,502.	14751.	17062.	1,558.	2 4216.	25140.	28385	7,011.	70158.	4 00 5 ¢ •	, 57.37.	40345.	< 419.	54801.	£4240.	41048.	65103.	66312.	7.575.	75578	1,567.	P6429.	C 4772.	173752.
PRESSURE GEG	MILLIBARS	C. 75.	0 • C ኒዖ	0.04	0.00	Ŭ*0\$9	C•Cny	0.027	0.000	J*357	O*U07	0.02	0.00%	0.02	201.0	175.3	150.0	125.0	100.0	30.0	0°U2	0.00	0.04	0.07	G*Ci	6.55	50 • 0	15.0	10.0
	REL.HUM. WIND DAI	GEOPOTENTIAL TEMPERATUPE REL.NUM. AIR DEWPOLUT PERCENT DIRE FLET DEGREES CFWTIGRAJF	GEOPOTENTIAL TEMPERATUPE REL.HUM. WIND DATA AIR DEMPOTIT PERCENT DIRECTION FLET DEGREES CFWTIGHAUF DEGREES(TN) 7 53.42 22.7 12.4 53. 534.9 4	GEOPUTENTIAL TEMPERATUPE REL.HUM. WIND DATA AIR DEMPOTIT PERCENT DIRECTION FLET DEGREES CFWTLGRAJF DEGREES(TN) 50.4% 22.7 12.4 53. 554.9 4 0 0.816. 19.0 17.0 56. 20.3 3	GEOPUTENTIAL TEMPERATUPE REL.HUM. WIND DATE FIET DEGREES CFUTIGRAJE DEGREES(TN) 7 52.7 12.6 53. 554.9 4 0 0.816. 19.3 17.9 56. 22.3 3 0 0.816. 19.3 17.9 56. 22.3 3 0 0.816. 19.3 17.9 56. 22.3 3 0 0.854. 18.5 -1.7 27. 74.0 12	GEOPUTENTIAL TEMPERATUPE REL.HUM. WIND DATE AIR DLWPOINT PERCENT DIRECTION FLET DEGREES (FWILGRAUF DEGREES(IN) 7 53.7 53.9 4 9 CRITCHION 17.7 56.2 27.3 3 0 10.503. 15.1 -4.4 22.7 74.0 13 0 10.503. 15.1 -4.4 22.7 73.0 13	GEOPUTENTIAL TEMPERATUPE REL.HUM. WIND DATE FIET DEGREES CFUTIGRAJE DEGREES(TIN) 7 52.7 12.6 53. 354.9 4 0 0.816. 19.3 11.3 56. 22.3 3 0 0.816. 19.3 11.3 56. 22.3 3 0 1.563. 15.1 -4.4 22. 74.0 13 1 1.563. -7.3 30. 74.9 16 1 1.502. 74.9 16	GEOPUTENTIAL TEMPERATURE NELHUM. WIND DATE AIR DLWPOILT PERCENT DIGECTION FLET DEGREES CFWILGRAUF DEGREESTIN) 7 50.7° 22.7 17.6 53. 354.9 4 0 CRITGRAUF 11.7 56. 27.3 3 0 CRITGRAUF 11.7 56. 27.3 3 0 LASA. 18.5 -1.7 77. 74.0 12 0 LUSAS. 15.1 -4.4 22. 73.0 13 1 LASAS. 9.3 -7.7 30. 74.9 16 0 LASAS. 45.2 -4.7 45. 49.3 15	GEOPUTENTIAL TEMPERATUPE REL.HUM. WIND DATE AIR	GEOPUTENTIAL TEMPERATUPE REL-HUM. WIND DATE FIET DEGREES (FWT1GRAJF PERCENT DIRECTION DEGREES(TN) 52.7* 22.7 12.4 53. 558.9 6 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	GEOPUTENTIAL TEMPERATUPE REL.HUM. WIND DATE AIR DEWPOLTT PERCENT DIRECTION DEGREES (FWTIGHAUF SS. 354.2 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	GEOPUTENTIAL TEMPERATUPE REL.HUM. WIND DATE AIR DEWPOLIT PERCENT DIRECTION DEGREES (FWTIGKAUF DEGREES(TN) DEGREES(GEOPUTENTIAL TEMPERATURE REL.HUM. WIND DATA AIR DEMPOTIT PERCENT DIRECTION FLET DEGREES (FWT1GKAUF 0.816. 19.3 17.7 56. 27.3 35.0 12.5 3.4 17.7 56. 27.3 35.0 12.5 3.4 17.7 56. 27.3 3.4 17.7 56. 27.3 3.4 17.7 56. 27.3 3.4 17.7 56. 27.3 3.4 17.7 56. 27.3 3.4 17.7 56. 27.3 3.4 17.7 56. 27.3 3.4 17.7 56. 27.4 4.5 17.7 57.4 17.7 57.7 17.7 17.7 17.7 17.7 17.7 17.7	GEOPUTENTIAL TEMPERATURE REL.HUM. WIND DATA AIR DEMPOINT PERCENT DIRECTION FIET DEGREES CFWTIGKAUF DEGREES(TN) 50 yr. 22.7 12.6 53. 354.9 4 0 0.816. 19.0 17.0 56. 22.7 72.0 12 0 1.5503. 15.1 -4.4 22. 73.0 13 0 1.5503. 15.1 -4.4 22. 73.0 13 0 1.5503. 15.1 -4.4 22. 73.0 13 0 1.55032.0 -5.1 79. 19.0 19 0 2.2162.0 -5.1 79. 19.0 19 0 2.2162.0 -5.1 79. 19.0 19 0 2.2162.0 -5.1 79. 19.0 19 0 2.2162.0 -5.1 79. 19.0 19 0 2.2162.3 -2.1 3 0 2.31822.3 -2.0 53.4 17 0 2.31822.3.9 -4.0.0 19. 55.4 17 0 2.31937.5 -4.0.0 19. 55.4 17	GEOPUTENTIAL TEMPERATURE REL.HUM. WIND DATA AIR DEMPOTIT PERCENT DIRECTION FLET DEGREES CFWTLGKAJF DEGREES(TN) CASA. 18.5 -1.7 56. 27.3 38.0 12.0 12.0 12.0 12.0 12.0 12.0 12.0 12	GEOPUTENTIAL TEMPERATUPE REL.HUM. WIND DATE LEU DEGREES (FWTIGRAUF DEGREES (TN)	GEOPUTENTIAL TEMPERATUPE REL-HUM. WIND DATE TEET DEGREES CFWTIGRAUF DEGREES CIN) 52.73	GEOPOTENTIAL TEMPERATURE REL.HUM. WIND DATE FLET DEGREES CENTIGRAJE DEGREESTIN) 7 53.2 35.2 4 0 CASA. 19.3 17.3 56.2 57.3 0 CASA. 18.5 17.3 56.2 57.3 3 0 CASA. 18.5 17.3 22.2 75.0 13 0 CASA. 18.5 -4.4 22.2 75.0 13 0 14.56. -2.3 -5.3 -7.3 75.0 13 14.56. -2.3 -5.3 -5.3 75.9 19 19 15.6 -2.3 -5.3 -4.5 49.3 15 15.5 -2.3 -5.3 -5.4 47.2 12 15.5 -2.1 44. 5.1 13 15.5 -2.2 7.4 5.1 13 15.5 -2.3 -2.1 4.4 5.1 13	GEOPUTENTIAL TEMPERATUPE REL-HUM. WIND DATE TEET DEGREES (FWT1GKAJF PERCENT DIRECTION DEGREES (TN)	GEOPUTENTIAL TEMPERATUPE REL-HUM. WIND DATE OF CONTENTIAL DEGREES (TN) 52 22	GEOPOTENTIAL TEMPERATURE REL.HUM. WIND DATE FLET DEGREES CENTIGNAUF DEGREES CIN) CASA. 19.0 17.0 53. 354.9 4 CASA. 19.0 17.0 56. 27.3 3 CASA. 18.5 -1.0 27. 74.0 17.0 CASA. 18.5 -1.0 22. 73.0 13.0 CASA. 18.5 -4.0 22. 73.0 13.0 CASA. 18.5 -4.0 22. 73.0 13.0 CASA. 45. 45. 45.0 14.0 14.0 CASA. -2.0 -5.1 79. 47.2 17.0 17.0 CASA. -12.4 -2.2 77.0 47.2 17.0 17.0 CASA. -12.4 -2.1 44.0 55.4 17.0 CASA. -17.3 -24.0 57.4 17.0 17.0 CASA. -23.0 -47.0 54.0	GEOPUTENTIAL TEMPERATUPE REL.HUM. WIND DATE	UEOPUTENTIAL TEMPERATUPE NEL-HUM. WIND DATE	GEOPOTENTIAL TEMPERATUPE NEL-HUM. WIND DATE	GEOPOTENTIAL TEMPERATURE REL.HUM. WIND DATE GEOPOTENTIAL DEGREES (FMTIGRAJE PERCENT DISCRIS) DEGREES (TN) JOSDYR. 22.7 33. 358.9 4 JOSDYR. 22.7 72.0 13.3 358.9 4 JOSDYR. 10.0 17.7 56. 20.3 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 <td< td=""><td> GEOPOTENTIAL TEMPERATUPE NEL-HUM. WIND DATE </td><td> UEUPUTLNTIAL TEMPERATUPE REL.HUM. WIND DATE </td><td> UEUPUTENTIAL TEMPERATUPE REL.HUM. WIND DATE </td><td> DEGRES TEMPERATURE DEGREES (TENTION DEGREES (TENTIO</td></td<>	GEOPOTENTIAL TEMPERATUPE NEL-HUM. WIND DATE	UEUPUTLNTIAL TEMPERATUPE REL.HUM. WIND DATE	UEUPUTENTIAL TEMPERATUPE REL.HUM. WIND DATE	DEGRES TEMPERATURE DEGREES (TENTION DEGREES (TENTIO

** AT LEAST ONE ASSUATED RELATIVE HUMINITY VALUE WAS USED IN THE INTERPOLATION.

GEODETIC CUORDINATES 32.40175 LAT DEG 106.31232 LON DEG														
A T.	RE L. HUM. Per cent	41.0	0 . 5 . 0	45.0	39.0	35.0	28.0	22.0	45.0	0.9,	\$2.0	0.99	22.0	21.0
SIGNIFICANT LEVEL DATA 1PoC190095 LC-37 TABLG 12	TEMPFHATURE AIR DEWPOINT DEGREFS LEVIISRADE	13.3		∩ *^ ∞ *0										
SIGNIF	TEM AIR DESREE	27.7	23.9	20.6	17.5	16.5	17.8		4.5	-1.9	-3.8	7.7-	-4.2	-6.2
٠, ١٥	PPLSSURF GEOMETRIC ALTITUDE MILLIDARS MSL FEET	4.05.1.4	5183.0	6431.9	8362.9	8470.0	8736.3	12452.8	14407.1	15587.7	17243.8	176"1.8	18386.5	19597.4
0E 4031,77 FEET "SL 1000 AUT 95	PPLSSUR	φ. Ε. Ε. Α. Ε. Ε. Α.	0.028	\$. 6 % C	7.007	1.727	759.1	1 . 00 . 0	610.1	503.5	547.5	549.1	524.0	5 00 • 0
STATION ALTITUDE 5 JULY 83 ASCENSION NO.														

1 A 1 1 0 N 5 JULY	1Tube 43	51.77 FEET 1000 MD/P	ET MSL DÆ		UPPFK A1R 1001937 LC-37	A T A P		E 1	CUORDINAT
					TABLE 13	m		•	ב רחש מב
GEOMETR1C	PRESSURE	1 1	ATURE	REL .HUY.	DEMSITY	SPLED OF	0	ATA	INDEX
ALTITUDE MSL FEET	MILLIBARS	BIR DE GREES	DF#POINT CEPITIGRADE	•	SM /C U3 IC MF TE R	SOUND	DIRFCTION Degrees(TV)	SPLE D KNOTS	OF REFRACTION
46.51.4		27.7			7.0	477	, d		5
4,500.0		.00	12.3		. •	676	6	10.5	2000
50.00		24.5	_	44.1	S	674	•		2000
5530.0	9.079	73.1	10.6	45.0	٠.	67	œ	0.3	1.000274
0.0009	Š	22.1	•	7.5.0	S	671	~	•	.0002
6530.0	Ŀ	21.1	•	7.57	56	673	С	•	\$000.
7000	~	•	•	2.44	-	699	7	•	000
7500.0		19.4	4.0	42.6	α	667	Š	•	200C•
0.0 008	•	16.5	•	4.0.5	4	999	86.0	•	1.000242
6500.0	Š	10.0	* 0		ž	564	,	14.0	0000
0.0002	Ň	۲.	-1.3		o 3)	554	ζ.		000
3°0054		•	\sim		ŚŹ	553	ċ	•	• 000z
10000.0	å	Š	-2.6		က ၁	662		•	0005
S 09		•	~		C,	661	ď	14.6	• 0005
11000.0	÷	~	1.4-		ď	999	ά.	14.5	1.000207
1500	*	12.2	0.9-	27.5	827.0	658	79.5	15.7	9302
000	•	C	-7.3		9	657	æ	17.1	1.000198
2533		9.5	an a		5	655	\$	10.0	1000
3000		•	-7.5		3	554	۶.	•	000
13500.0		6.0	Ð		<u>سر</u>	652		21.4	1.333192
4330	٠.	5.6	•		2.5	651	<u>۰</u>	•	1000
4500	'n	0.4	-6.8		ŝ	649		•	1.000188
1:0000.0		1.3	ċ		5	979	ċ	•	1.333184
2300	•	~	-11.5		0,	642	4	•	1.000180
16000.0		\sim	-11.3	۲0°0 د	3	641	8.1.	•	<u>0</u>
16530.3	∴.	\sim		•	, v	641	0	20.7	•
2000	,;	-3.5	ċ	9.65	12	940	∞		001
17:00.0	J	•	Э	•	5	6 3 9	S	•	17
စ္ပ	÷	-4.3	4	÷	œ.	6 4 9	m	10.0	0016
\$ 00	_•	7.7-	- 4	:	~	638	0	•	.00015
14000.0	÷	-5.5	-23.8	-	70	637			1000
5 0 0	501.3	· 9-	•		7	636			0015

MANDATORY LEVELS	1860180395	16-37	TABLE 14
	STATION ALTITUDE 4051. 77 FEET MSL	5 JULY 83 1000 MUT	ASCENSION NO. 95

GEODETIC COORDINATES 32.4U175 LAT DEG 1C6.31232 LON DEG TABLE 14

PRESSURE	GEOFCIENTIAL	T EMP	FPATUPE	REL.HUM.	O ONIM	ATA
		AIR	DEWPOINT	PERCENT	DIRECTION SPI	SPEED
MILLIPARS	FLET	DFGREES	DEGREES CFNTIGRADE		DEGREES (TN)	KNOTS
0.053		23.8	11.2	45.	3.4 A. X	7.6
0.003		20.6	80	45.	75.5	4.5
0.027		17.8	6.	28.	83.7	15.5
700 00		14.5	-3.8	28.	77.9	14.3
6.50.0		0.6	υ•α-I	29.	6.72	19.7
600		2.1	7.4-	45.	51.6	20.7
0.052	17138.	-3.7	-10.1	61.	37.6	21.0
0.002		-6.2	6.42-	21.		

